BD-P2550

Blu-ray Disc Player

user manual

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key features of your new Blu-ray Disc Player

Player Features

Supports a Variety of Disc Types

Supports Blu-ray (BD-ROM, BD-RE, BD-R), DVD Video, DVD-RW/-R (V mode and finalized only) discs and Audio CD.

HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the player to your TV.

Blu-ray Disc Features

Blu-ray Discs can store 25 GB (single layer) or 50 GB (dual layer) on a single sided disc - about 5 to 10 times the capacity of a DVD. Blu-ray Discs also support the highest quality HD video available in the industry - Large capacity means no compromise on video quality. Furthermore, a Blu-ray Disc has the same familiar size and look as a DVD.

* The following Blu-ray Disc features are disc dependant and will vary.
  Appearance and navigation of features will also vary from disc to disc.
  Not all discs will have the features described below.

Video highlights

The BD-ROM format supports three highly advanced video codecs, including AVC, VC-1, and MPEG-2.

HD video resolutions are also available:

- 1920 x 1080 High Definition
- 1280 x 720 High Definition

For High-Definition Playback

To view high-definition contents on a Blu-ray Disc, an HDTV (High Definition Television) is required.
Some Blu-ray Discs may require using the player's HDMI OUT to view high-definition content. The ability to view high-definition content on Blu-ray Discs may be limited depending on the resolution of your TV.

Graphic planes

Two individual, full HD resolution (1920x1080) video layers are available, on top of the HD video layer.
One layer is assigned to video-related graphics (like subtitles), and the other layer is assigned to interactive elements, such as buttons or menus. Various wipes, fades and scroll effects may be available on both layers.

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Menu graphics
Support full color resolution graphics and animation, thereby greatly surpassing the capabilities of DVD-Video. Unlike DVD, Menus can be accessed during video playback.

Menu sounds
When you highlight or select a menu option on a disc, sounds can be heard such as button clicks or a voice-over explaining the highlighted menu choice.

Multi-page/PopUp Menus
Unlike the DVD-Video, playback is not interrupted each time a new menu screen is accessed. Due to Blu-ray Disc's ability to preload data from the disc without interrupting playback, a menu may consist of several pages. You can browse through the menu pages or select different menu paths, while the audio and video continues playing in the background.

Interactivity
Certain Blu-ray Discs may contain Animated menus and Trivia games.

User Browsable Slideshows
With Blu-ray Discs, you can browse through various still pictures while the audio remains playing.

Subtitles
Depending on what is contained on the Blu-ray Disc, you may be able to select different font styles, sizes and colors for the subtitles. Subtitles may also be animated, scrolled or faded in and out.

BD-LIVE
You can use a Blu-ray disc supporting BD-LIVE through network connection to enjoy various contents provided by the disc manufacturer.

NETFLIX
This Blu-ray Disc Player enables you to enjoy movies on-demand provided by Netflix through a network connection.

PANDORA
This Blu-ray Disc Player enables you to enjoy Internet Radio provided by PANDORA through a network connection.

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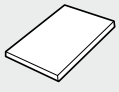
WHAT'S INCLUDED
Check for the supplied accessories below.

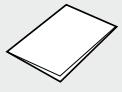
Composite (Video), Audio L/R Cable
(AC39-42001R)

Batteries for Remote Control (AAA Size)
(4301-001035)

Remote Control
(AK59-00070D)



User Manual
(AK68-01588B)



Quick Guide
(AK68-01732A)

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safety information

WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).

NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
The lighting flash and Arrowhead within Triangle Is a warning sign alerting you of dangerous voltage Inside the product	**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this player must be securely attached to the floor/wall in accordance with the installation instructions.

Note to CATV system installer

This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This class B digital player meets all requirements of the Canadian Interference - Causing Equipment Regulations.

CLASS 1	**LASER PRODUCT**
KLASSE 1	**LASER PRODUKT**
LUOKAN 1	**LASER LAITE**
KLASS 1	**LASER APPARAT**
PRODUCTO	**LÁSER CLASE 1**

CLASS 1 LASER PRODUCT

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

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Note:

- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This Blu-ray Disc Player is designed and manufactured to respond to the Region Management Information. If the Region number of a BD/DVD disc does not correspond to the Region number of this Blu-ray Disc Player, the Blu-ray Disc Player cannot play the disc.

PRECAUTIONS

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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safety information

Handling Cautions

- Before connecting other components to this Blu-ray Disc Player, be sure to turn them all off.
- Do not move the Blu-ray Disc Player while a disc is being played as the disc may be scratched or broken, or the Blu-ray Disc Player's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the Blu-ray Disc Player.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interferences such as lightning and static electricity can affect the normal operation of this Blu-ray Disc Player. If this occurs, turn the Blu-ray Disc Player off and on again with the **POWER** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The Blu-ray Disc Player will operate normally.
- Be sure to remove the disc and turn off the Blu-ray Disc Player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the Blu-ray Disc Player for long periods of time.
- To clean a disc, wipe it in a straight line from the inside to the outside of the disc.
- Do not expose the player to any liquid.
- When the AC plug is connected to a wall outlet, the player will still draw power (standby mode) when it is turned off.
- The player should not be exposed to dripping or splashing of any liquid and no objects filled with liquids, such as vases, should be placed on the player.
- To disconnect the player from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be easily accessible.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

Restrictions on Playback

- This player may not respond to all operating commands because some Blu-ray Disc, DVD, CD discs allow specific or limited operation and features during playback.
  Please note that this is not a defect in the player.
- Samsung cannot assure that this player will play every disc bearing the Blu-ray Disc, DVD or CD logo because disc formats evolve, and problems and errors may occur during the creation of Blu-ray Disc, DVD, CD software and/or the manufacture of discs.
  Please contact the SAMSUNG customer care center if you have questions or encounter difficulty in playing Blu-ray Disc, DVD, CD discs in this player. Also, refer to rest of this Manual for additional information on playback restrictions.

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BEFORE USING THE USER'S MANUAL

Make sure to check the following terms before using the user's manual.

Icons that will be used in this manual

Icon	Term	Definition
	BD-ROM	This involves a function available on a BD-ROM.
	BD-RE	This involves a function available on the BD-RE.
	BD-R	This involves a function available on the BD-R.
	DVD-VIDEO	This involves a function available on DVD-Video or DVD-R/DVD-RW discs that have been recorded and finalized in Video Mode.
	DVD-RW	This involves a function available on DVD-RW. (V mode and finalized only)
	DVD-R	This involves a function available on DVD-R. (V mode and finalized only)
	Audio CD	This involves a function available on an audio CD-RW/CD-R (CD-DA format).
	Note	This involves tips or instructions on the page that help each function operate.

About the use of this user's manual

1) Be sure to be familiar with Safety Instructions before using this product. (See pages 4~6)
2) If a problem occurs, check the Troubleshooting section. (See pages 68~69)

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DISC TYPE AND CHARACTERISTICS

Disc types that can be played

Disc Types	Disc Logo	Recorded content	Disc Shape	Max. Playing minute
BD-ROM BD-RE/BD-R		AUDIO + VIDEO	Single sided	Playing time depends on the Title
DVD-VIDEO		AUDIO + VIDEO	Single sided(5 inches)	240
			Double sided(5 inches)	480
			Single sided(3 1/2 inches)	80
			Double sided(3 1/2 inches)	160
DVD-RW (V mode and finalized only)		AUDIO + VIDEO	5 inches (4.7GB)	480 (EX : Extended Play)
DVD-R (V mode and finalized only)		AUDIO + VIDEO	5 inches (4.7GB)	480 (EX : Extended Play)
AUDIO-CD		AUDIO	Single sided(5 inches)	74
			Single sided (3 1/2 inches)	20

- This player is compatible with the NTSC color system only.
- PAL discs will not play.

Logos of Discs that can be played

Blu-ray Disc	Dolby Digital Plus	Digital Audio	BD-LIVE
Dolby TrueHD	NTSC broadcast system in U.S.A, Canada, Korea, Japan	Stereo	Java

Discs that cannot be played

- Blu-ray Discs with a region code other than "Region A".
- DVD-Video with a region number other than “1” or “ALL”
- HD DVD
- DVD-RAM
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RW(VR mode)
- DVD-ROM/PD/MV-Disc, etc
- CVD/CD-ROM/CDV/CD-G/CD-I/LD

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[Note]

- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either “No disc.” or “Please check the regional code of the disc.” will be displayed.
- If a DVD-R/-RW disc has not been recorded properly in DVD video format, it will not be playable.
- The unit cannot play CD-RW/CD-R and DVD-RW/-R recorded content such as divx, avi, mpg, mov, wma, mp3,digital photo view(JPEG) file.

Region code

Both the Blu-ray Disc Player and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play.
The Region Number for this Blu-ray Disc Player is described on the rear panel of the Blu-ray Disc Player.

Disc Type	Blu-ray	DVD-VIDEO
Region code		

Blu-ray Disc Region Code	Area
A	North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
B	Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
C	India, China, Russia, Central and South Asia.

DVD Region Code	Area
1	The U.S., U.S. territories and Canada
2	Europe, Japan, the Middle East, Egypt, South Africa, Greenland
3	Taiwan, Korea, the Philippines, Indonesia, Hong Kong
4	Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
5	Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
6	China

Blu-ray Disc Compatibility

Blu-ray Disc is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Compliance and Compatibility Notice section of this Manual. If you encounter compatibility problems, please contact the SAMSUNG customer care center at 1-800 SAMSUNG.

- Playback may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the disc box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for playback.
- Discs with PAL programs recorded on them cannot be played using this product.
- When a BD-J title is played, loading may take longer than a normal title, or some functions may perform slowly.

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Disc Types

❖ BD-ROM

Blu-ray Disc Read Only Memory. A BD-ROM disc contains pre-recorded data. Although a BD-ROM may contain any form of data, most BD-ROM discs will contain movies in High Definition format, for playback on Blu-ray Disc Player's. This unit can play back pre-recorded commercial BD-ROM discs.

❖ BD-RE/BD-R

Blu-ray Disc Rewritable/Blu-ray Disc Recordable. BD-RE/BD-R is the ideal format for making backups, or recording personal video.

❖ DVD-Video

- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby Digital surround, allowing you to enjoy vivid and clear theatre quality images.
- When switching from the first layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD-RW/-R recorded in Video Mode is finalized, it becomes DVD-Video. Pre-recorded (pre-stamped) commercial DVDs with movies are also referred to as DVD-Videos. This unit can play back pre-recorded commercial DVD discs (DVD-Video discs) with movies.

❖ Audio CD

- An audio disc on which 44.1kHz PCM Audio is recorded.
- This unit can play back CD-DA format audio CD-RW and CD-R discs.
- The unit may not be able to play some CD-RW or CD-R discs due to the condition of the recording.

❖ CD-RW/CD-R

- Use a 700MB(80 minutes) CD-RW/CD-R disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.
- If the CD-RW/CD-R disc was not recorded as a closed session, you may experience delays when playing back the beginning of the disc or all recorded files may not play.
- Some CD-RW/CD-R discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-RW/CD-R media from CDs for your personal use,playability may vary depending on contents and discs.

❖ DVD-R Disc Playback

- Once a DVD-R recorded in Video Mode is finalized, it becomes DVD-Video.
- This unit can play back DVD-R discs recorded and finalized with a DVD video recorder. It may not be able to play some DVD-R discs depending on the disc and the condition of the recording.

❖ DVD-RW Disc Playback

- Playback can be performed with DVD-RW discs recorded in the Video Mode and finalized.
- Once a DVD-RW recorded in Video Mode is finalized, it becomes DVD-Video. Ability to play back may depend on recording conditions.

Disc Format

❖ DVD-RW/-R (V)

- This is a format that is used for recording data on a DVD-RW or DVD-R disc. The disc can be played by this Blu-ray Disc Player once it has been finalized.

❖ AVCHD (Advanced Video Codec High Definition)

- This player can playback AVCHD format discs. These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.
- Some AVCHD discs use the “x.v.Color” format.
- This player can playback AVCHD discs using “x.v.Color” format.
- “x.v.Color” is a trademark of Sony Corporation.

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• “AVCHD” and the AVCHD logo are trademarks of Matsushita Electronic Industrial Co., Ltd. and Sony Corporation.

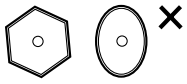
- Some AVCHD format discs may not play, depending on the recording condition. AVCHD format discs need to be finalized.
- “x.v.Color” offers a wider color range than normal DVD camcorder discs.

DISC STORAGE & MANAGEMENT

Disc Handling

❖ Disc Shape

• Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this Blu-ray Disc Player may be damaged.



❖ Holding discs

• Avoid touching the surface of a disc where recording is performed.

❖ Blu-ray Discs

• If the player is not used for a long period of time, remove the Blu-ray Disc from the player and store it in its case.
• Be careful not to leave fingerprints or scratches on the surface of the Blu-ray Disc.

❖ DVD-RW and DVD-R

• Clean with an optional PD disc cleaner (LF-K200DCA1 where available). Do not use cleaners or cloths for CDs to clean DVD-RW/-R discs.

❖ DVD-Video, Audio-CD

• Wipe off dirt or contamination on the disc with a soft cloth.

❖ Cautions on handling discs

• Do not write on the printed side with a ball-point pen or pencil.
• Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
• Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
• Do not use scratch-proof protectors or covers.
• Do not use discs printed with label printers available on the market.
• Do not load warped or cracked discs.

Disc Storage

Be careful not to damage the disc because the data on these discs is highly vulnerable to the environment.

• Do not keep under direct sunlight.
• Keep in a cool ventilated area.
• Store vertically.
• Keep in a clean protection jacket.
• If you move your Blu-ray Disc Player suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. If this occurs, wait for two hours before connecting the plug to the power outlet. Then insert the disc and try to play back again.

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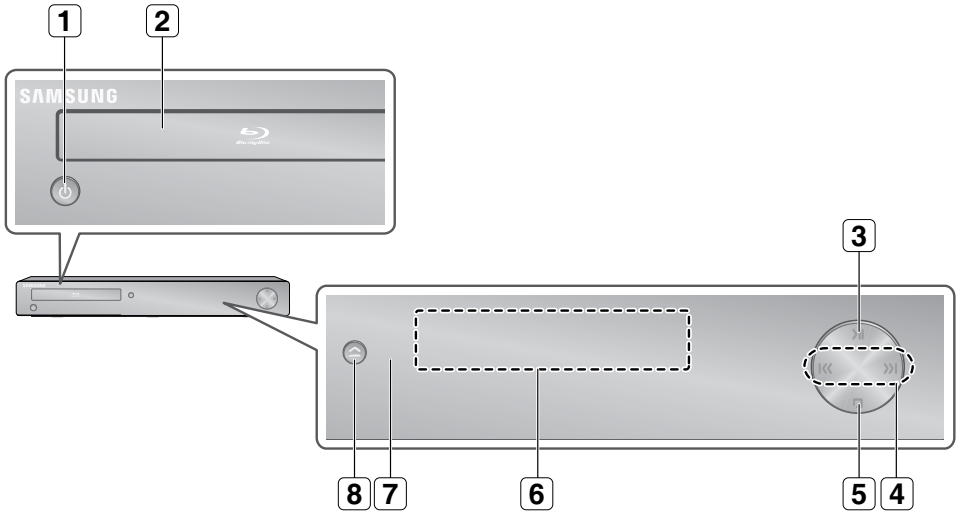
FRONT PANEL



1	POWER BUTTON	Turns the Blu-ray Disc Player on and off.
2	DISC TRAY	Opens to accept a disc.
3	PLAY/PAUSE BUTTON	Plays a disc or pauses playback.
4	SEARCH/SKIP BUTTONS	Goes to the next title/chapter/track or goes back to the previous title/chapter/track.
5	STOP BUTTON	Stops disc playback.
6	DISPLAY	Displays the playing status, time, etc.
7	REMOTE CONTROL SENSOR	Detects signals from the remote control.
8	OPEN/CLOSE BUTTON	Opens and closes the disc tray.

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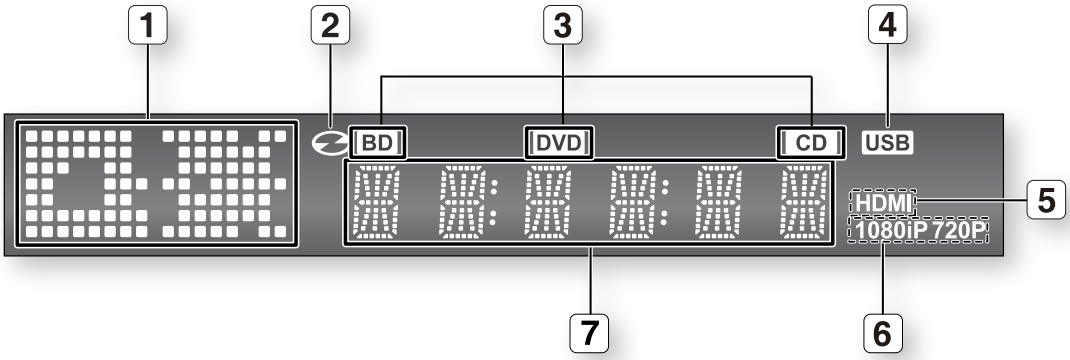
FRONT PANEL DISPLAY



1	Playback-related, Open/Close indicator	Lights when playback-related and open/close buttons are selected.
2	In Disc Indicator	Lights when a disc is in the tray.
3	Disc Type indicators	Lights to indicate the disc type in the tray.
4	USB Indicator	Lights to indicate when USB is connected.
5	HDMI Indicator	Lights to indicate when HDMI is connected.
6	Resolution Indicator	Indicates the 1080p, 1080i or 720p resolution when HDMI or Component is connected.
7	STATUS Indicator	Playing time/current status indicator.

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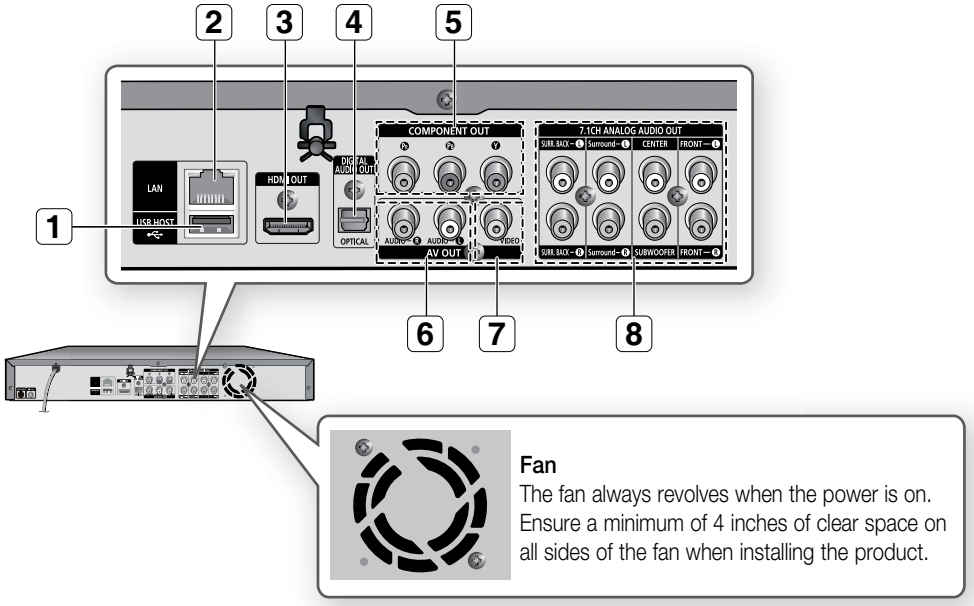
description

REAR PANEL



Fan
The fan always revolves when the power is on. Ensure a minimum of 4 inches of clear space on all sides of the fan when installing the product.

1	USB HOST	It can be used as local storage media when connected to BD-LIVE. It can be also used for firmware upgrade.
2	LAN	It can be also used for connection to BD-LIVE or firmware upgrade.
3	HDMI OUT	Using a HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture and to your Receiver for the best quality sound.
4	DIGITAL AUDIO OUT (OPTICAL)	Connects to a Receiver.
5	COMPONENT VIDEO OUT	Connects to equipment having Component video input.
6	AUDIO OUT	Connects to the audio input of external equipment using audio cables.
7	VIDEO OUT	Connects the input of external equipment using a video cable.
8	7.1CH ANALOG AUDIO OUT	Connect to a 7.1CH analog input on an A/V amplifier (When connecting to a 5.1 channel home theater or receiver, connect all the Analog Audio output jacks from the player except for the Surround Back Left/Surround Back Right outputs)

- Software upgrades using the USB Host jack must be performed with a USB flash drive only.
- Oversized USB drives may not be able to be inserted when a LAN or HDMI cable is connected.

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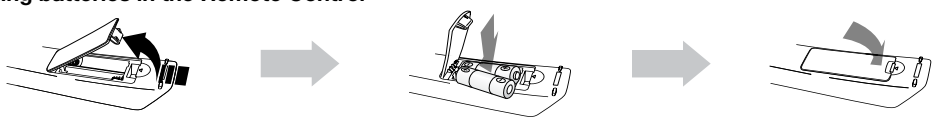
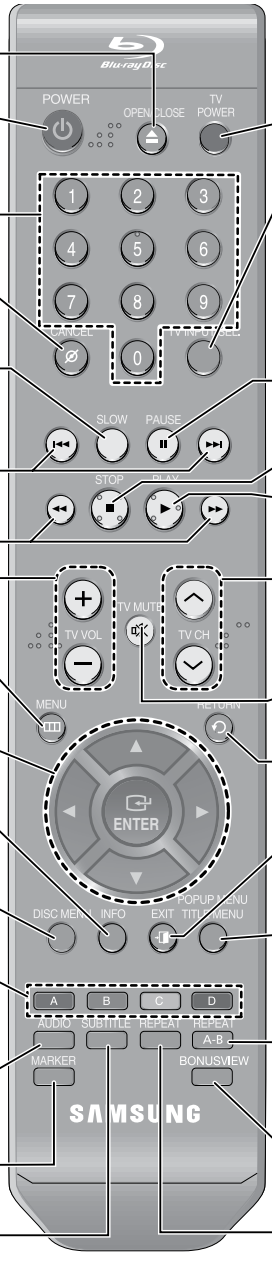
TOUR OF THE REMOTE CONTROL

Installing batteries in the Remote Control



1. **Lift the cover at the back of the remote control upward as shown.**
2. **Install two AAA size batteries.** Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.
3. **Replace the cover.** Assuming typical TV usage, the batteries last for about one year.



OPEN/CLOSE Buttons
To open and close the disc tray.

POWER Button

TV POWER Button

NUMBER Buttons

TV INPUT SEL. Button
After setup, allows you to set the input source on your TV.

CANCEL Button

SLOW Button
Each time this button is pressed, the disc will play slowly.

PAUSE Button
Press to pause a disc.

REVERSE/FORWARD SKIP Buttons
Press to skip backwards or forwards.

STOP Button
Press to stop a disc.

REVERSE/FORWARD SEARCH Buttons
Press to search a disc backwards or forwards.

PLAY Button
Press to play a disc.

TV VOL Buttons
TV volume adjustment

TV CH Button
Use this to select a TV program.

MENU Button
Brings up the Blu-ray Disc Player's setup menu.

TV MUTE Button
Mutes the speakers of your TV.

ENTER/DIRECTION Buttons

RETURN Button

INFO Button
Displays current setting or disc status.

EXIT Button

DISC MENU Button
Use this to enter the disc menu.

POPUP MENU/TITLE MENU Button
Use this to enter the popup menu/title menu.

COLOR Buttons : RED(A), GREEN (B), YELLOW(C), BLUE(D)
Used to access special features on BD-J discs(disc dependent).

REPEAT A-B Button
Allows you to repeat playback of a certain section.

AUDIO Button
Use this to access various audio functions on a disc (Blu-ray Disc/DVD).

BONUSVIEW Button
Use this to turn on or off the BONUSVIEW function on supported Blu-ray Discs.

MARKER Button
Use this to bookmark a position while playing a disc.

SUBTITLE Button
Press this to switch the Blu-ray Disc/DVD's subtitle language.

REPEAT Button
Allows you to repeat a title, chapter, track or disc.

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remote control

SETTING THE REMOTE CONTROL

You can control certain functions of your TV with this remote control.

Control function buttons include : **TV POWER**, **TV CH ∧/∨**, **TV VOL +/–**, **TV MUTE**, **TV INPUT SEL.** button.

To determine whether your television is compatible, follow the instructions below.

1. Switch your television on.
2. Point the remote control towards the television.
3. Press and hold the **TV POWER** button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate number buttons. (see the next page for the code list).

   If your television is compatible with the remote control, it will switch off.
   It is now programmed to operate with the remote control.

- If several codes are indicated for your television brand, try each one in turn until you find one that works.
- If you replace the remote control's batteries, you must set the brand code again.

You can then control the television using the following buttons after pressing the TV button.

Button	Function
TV POWER	Used to switch the television on and off.
TV INPUT SEL.	Used to select an external source.
TV VOL (+/–)	Used to adjust the volume of the television.
TV CH (∧/∨)	Used to select the desired channel.
TV MUTE	Used to toggle the sound on and off.

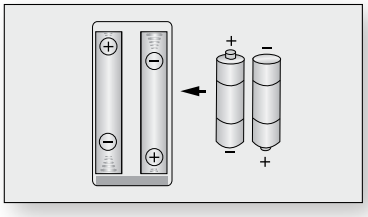
- The functions listed above will not necessarily work on all televisions. If you encounter problems, operate the television directly.

REGARDING THE BATTERY

If the remote does not operate properly:

- Check the polarity +/– of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations. Do not put them in the household trash.



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CONTROLLABLE TV CODES

Brand	Code
SAMSUNG	TV POWER+01, +02, +03, +04, +05, +06, +07, +08, +09
AIWA	TV POWER+82
ANAM	TV POWER+10, +11, +12, +13, +14, +15, +16, +17, +18
BANG & OLUFSEN	TV POWER+57
BLAUPUNKT	TV POWER+71
BRANDT	TV POWER+73
BRIONVEGA	TV POWER+57
CGE	TV POWER+52
CONTINENTAL EDISON	TV POWER+75
DAEWOO	TV POWER+19, +20, +23, +24, +25, +26, +27, +28, +29, +30, +31, +32, +33, +34
EMERSON	TV POWER+64
FERGUSON	TV POWER+73
FINLUX	TV POWER+06, +49, +57
FORMENTI	TV POWER+57
FUJITSU	TV POWER+84
GRADIENTE	TV POWER+70
GRUNDIG	TV POWER+49, +52, +71
HITACHI	TV POWER+60, +72, +73, +75
IMPERIAL	TV POWER+52
JVC	TV POWER+61, +79
LG	TV POWER+06, +19, +20, +21, +22, +78
LOEWE	TV POWER+06, +69
LOEWE OPTA	TV POWER+06, +57
MAGNAVOX	TV POWER+40
METZ	TV POWER+57
MITSUBISHI	TV POWER+06, +48, +62, +65
MIVAR	TV POWER+52, +77
NEC	TV POWER+83
NEWSAN	TV POWER+68
NOBLEX	TV POWER+66
NOKIA	TV POWER+74
NORDMENDE	TV POWER+72, +73, +75
PANASONIC	TV POWER+53, +54, +74, +75
PHILIPS	TV POWER+06, +55, +56, +57
PHONOLA	TV POWER+06, +56, +57
PIONEER	TV POWER+58, +59, +73, +74
RADIOLA	TV POWER+06, +56
RADIOMARELLI	TV POWER+57
RCA	TV POWER+45, +46
REX	TV POWER+74
SABA	TV POWER+57, +72, +73, +74, +75
SALORA	TV POWER+74
SANYO	TV POWER+41, +42, +43, +44, +48
SCHNEIDER	TV POWER+06
SELECO	TV POWER+74
SHARP	TV POWER+36, +37, +38, +39, +48
SIEMENS	TV POWER+71
SINGER	TV POWER+57
SINUDYNE	TV POWER+57
SONY	TV POWER+35, +48
TELEAVA	TV POWER+73
TELEFUNKEN	TV POWER+67, +73, +75, +76
THOMSON	TV POWER+72, +73, +75
THOMSON ASIA	TV POWER+80, +81
TOSHIBA	TV POWER+47, +48, +49, +50, +51, +52
WEGA	TV POWER+57
YOKO	TV POWER+06
ZENITH	TV POWER+63

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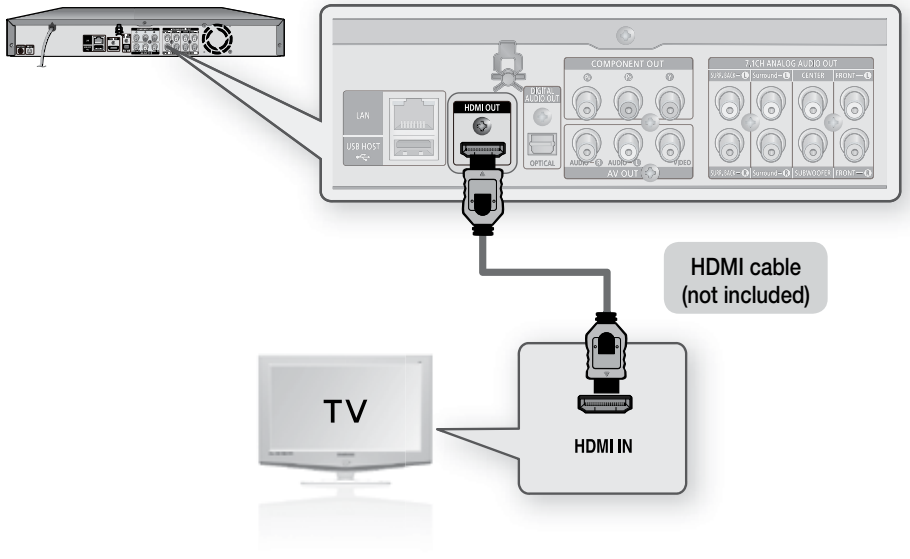
connections

This section involves various methods of connecting the Blu-ray Disc Player to other external components such as a TV.

CONNECTING TO A TV WITH AN HDMI CABLE (BEST QUALITY)

1. Using an HDMI-HDMI cable (not included) connect the **HDMI OUT** terminal on the rear of the Blu-ray Disc Player to the **HDMI IN** terminal of your TV.
2. Press the input selector on your TV remote control until the HDMI signal from the Blu-ray Disc Player appears on your TV screen.
   - If you have set the remote control to operate your TV (see pages 18~19), press the **TV INPUT SEL.** button on the remote control and select HDMI as the external source of the TV.



- If the HDMI cable is connected or removed during playback of a CDDA, the player will stop playing.
- If the player is connected to your TV in HDMI 1080p output mode, you must use a High speed(category2) HDMI cable.

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HDMI AUTO DETECTION FUNCTION

The player's video output will automatically change to HDMI output resolution when connecting an HDMI cable while power is on (see page 41).

- Depending on your TV, certain HDMI output resolutions may not work.
  Please refer to the user's manual of your TV.
- If an HDMI cable is connected from the player to a TV, the Blu-ray Disc Player's output is set to HDMI output resolution automatically within 10 seconds.
- If Component and HDMI are both connected, HDMI mode is automatically selected. (See page 41)
- When you connect the player to the TV using the HDMI cable for the first time or to a new TV, the HDMI output resolution will be automatically set to the highest provided by the TV.
- If you connect a Samsung TV to the Blu-ray Disc Player using an HDMI cable, the player can be easily operated using the TV remote control. (This is only available with Samsung TVs that support the Anynet+ feature.) (See pages 42~43)

- **HDMI (High Definition Multimedia Interface)**
  HDMI is an interface that enables the digital transmission of video and audio data with just a single connector.
  Using HDMI, the Blu-ray Disc Player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- **HDMI connection description**
  HDMI connector - Supports video and digital audio data (LPCM or Bitstream).
  - HDMI outputs only a pure digital signal to the TV.
  - If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- **Why does Samsung use HDMI?**
  Analog TVs require an analog video/audio signal. However, when playing a Blu-ray Disc/DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the Blu-ray Disc Player) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.
- **What is the HDCP?**
  HDCP (High-band width Digital Content Protection) is a system for protecting Blu-ray Disc/DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector . etc). Content is encrypted at the source device to prevent unauthorized copies from being made.
- **What is Anynet+?**
  Anynet+ is a convenient function that offers linked operation of this unit through Samsung TVs with the Anynet+ feature.
  - If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
  - If you turn on the player and insert a disc, the player will start playing the disc, and the TV will turn on automatically and switch to HDMI mode.
  - If you turn on the player and press the Play button with a disc already inserted,the TV will immediately turn on and switch to HDMI mode.

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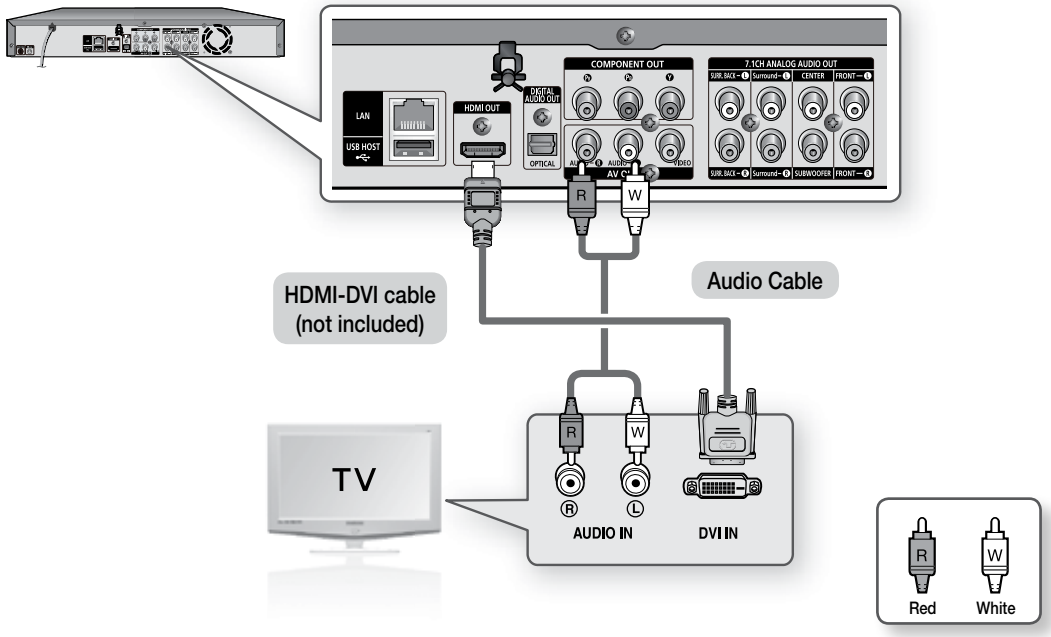
CONNECTING TO A TV WITH DVI CABLE (BEST QUALITY)

1. Using the HDMI-DVI cable (not included), connect the **HDMI OUT** terminal on the rear of the Blu-ray Disc Player to the **DVI IN** terminal of your TV.
2. Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the Blu-ray Disc Player to the **AUDIO (red and white) IN** terminals of your TV.
   Turn on the Blu-ray Disc Player and TV.
3. Press the input selector on your TV remote control until the DVI signal from the Blu-ray Disc Player appears on your TV screen.
   - If you have set the remote control to operate your TV (see pages 18~19), press the **TV INPUT SEL.** button on the remote control and select HDMI as the external source of the TV.

Connecting the HDMI cable while the Blu-ray Disc Player's power is on will result in the player's video output being changed to HDMI mode automatically (see page 41).

- Depending on your TV, certain HDMI output resolutions may not work.
  Please refer to the user's manual of your TV.
- If an HDMI-DVI cable is plugged into the TV, the Blu-ray Disc Player's output resolution is set to HDMI automatically within 10 seconds.
- If Component and HDMI are both connected, HDMI mode is automatically selected. (See page 41)
- When you connect the player to the TV using the HDMI cable for the first time or to a new TV, the HDMI output resolution will be automatically set to the highest provided by the TV
- If the HDMI cable is connected or removed during playback of a CDDA, the player will stop playing.



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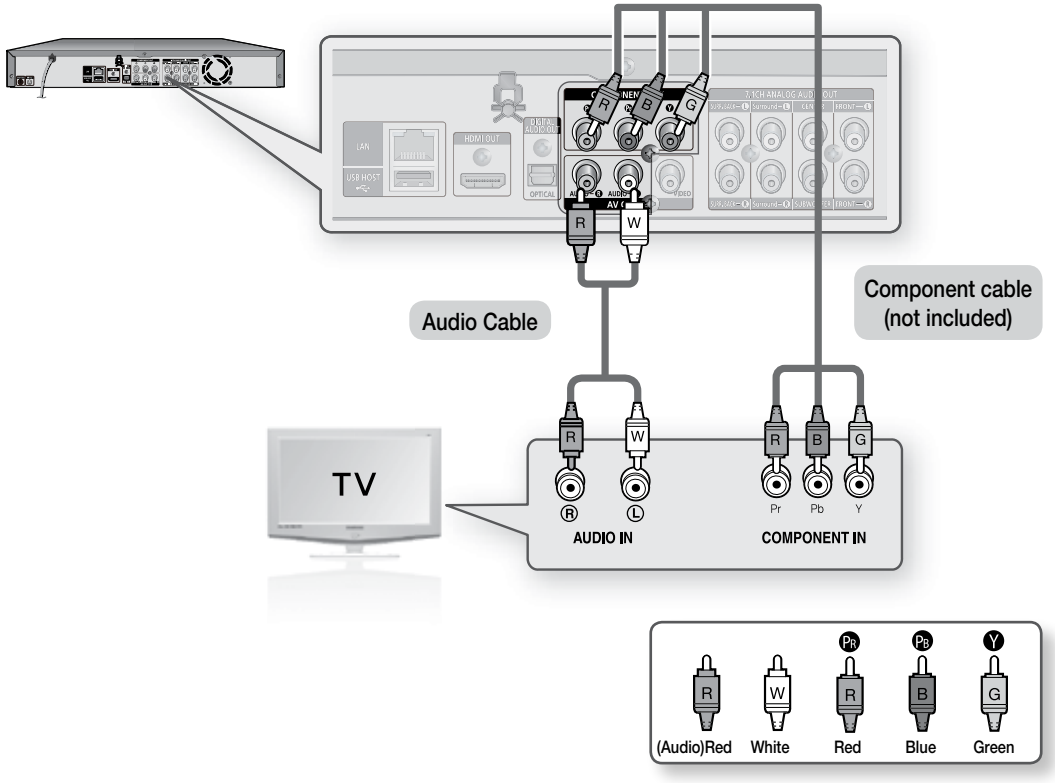
CONNECTING TO A TV (COMPONENT) (BETTER QUALITY)

- Connecting to your TV using Component video cables.
- You will enjoy high quality images with accurate color reproduction. Component video separates the picture element into black and white(Y), blue(PB), red(PR) signals to present clear and clean images. (Audio signals are delivered through the audio output.)

1. Using Component video cables (not included) , connect the **COMPONENT VIDEO OUT** terminals on the rear of the Blu-ray Disc Player to the **COMPONENT IN** terminals of your TV.
2. Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the Blu-ray Disc Player to the **AUDIO (red and white) IN** terminals of your TV. Turn on the Blu-ray Disc Player and TV.
3. Press the input selector on your TV remote control until the Component signal from the Blu-ray Disc Player appears on the TV screen.
   - If you have set the remote control to operate your TV (see pages 18~19), press the **TV INPUT SEL.** button on the remote control and select COMPONENT as the external source of the TV.



- Depending on the manufacturer, the component terminals on your TV may be marked “R-Y, B-Y, Y” or “Cr, Cb, Y” instead of “Pr, Pb, Y”. The number and position of terminals may vary depending on the TV set. Please refer to the user's manual of your TV.
- You can select from a variety of resolution settings for Blu-ray Discs such as 1080i, 720p, 480p and 480i, depending on the disc type. (See page 41)
- The actual resolution may differ from the setting in the SETUP menu if both Component and HDMI cables are connected. The resolution may also be different depending on the disc. (See page 41)
- In DVD playback, if both HDMI and Component jacks are connected and you select the Component mode, the Display Setup menu will show the output resolution as 1080p. The resolution is actually 480i.

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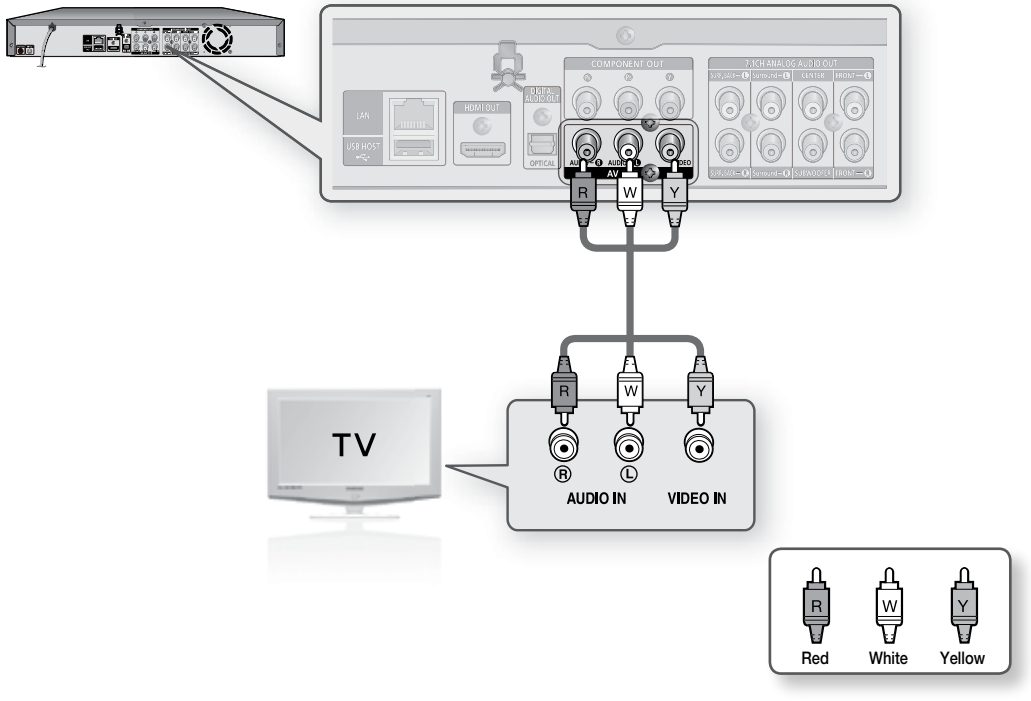
CONNECTING TO A TV (VIDEO) (GOOD QUALITY)

1. Using video/audio cables, connect the **VIDEO (yellow) / AUDIO (red and white) OUT** terminals on the rear of the Blu-ray Disc Player to the **VIDEO (yellow) / AUDIO (red and white) IN** terminals of your TV.
2. Turn on the Blu-ray Disc Player and TV.
3. Press the input selector on your TV remote control until the Video signal from the Blu-ray Disc Player appears on the TV screen.
   - If you have set the remote control to operate your TV (see pages 18~19), press the **TV INPUT SEL.** button on the remote control and select VIDEO as the external source of the TV.



- Noise may be generated if the audio cable is placed too close to the power cable.
- If you want to connect to an Amplifier, please refer to the Amplifier connection pages. (See pages 25~28)
- The number and position of terminals may vary depending on your TV set. Please refer to the user's manual of your TV.
- If there is only one audio input terminal on the TV, connect it to the [AUDIO OUT][left] (white) terminal of the Blu-ray Disc Player.
- The VIDEO source is always output in 480i resolution regardless of the resolution set in the SETUP menu. (See page 41)

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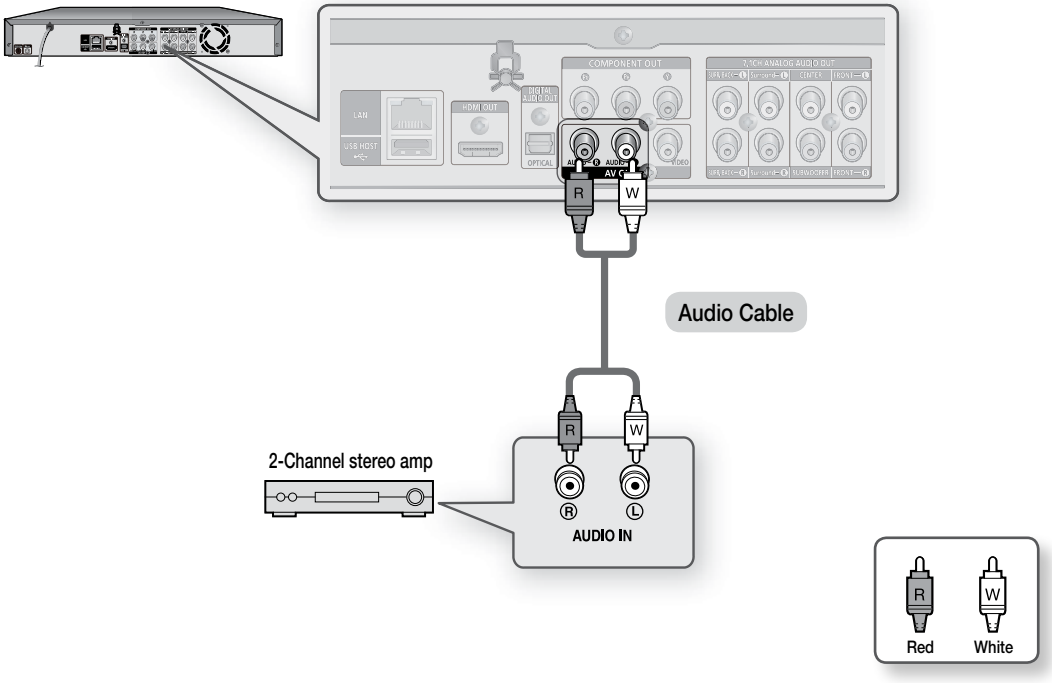
CONNECTING TO AN AUDIO SYSTEM (2 CHANNEL AMPLIFIER)

1. Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the Blu-ray Disc Player to the **AUDIO (red and white) IN** terminals of your Amplifier.
2. Using the video signal cable(s), connect the **HDMI**, **COMPONENT** or **VIDEO OUT** terminals on the rear of the Blu-ray Disc Player to the **HDMI**, **COMPONENT** or **VIDEO IN** terminal of your TV as described on pages 20 to 24.
3. Turn on the Blu-ray Disc Player, TV and Amplifier.
4. Press the input select button of the Amplifier to select the **external input** in order to hear sound from the Blu-ray Disc Player. Refer to your Amplifier's user manual to set the Amplifier's audio input.



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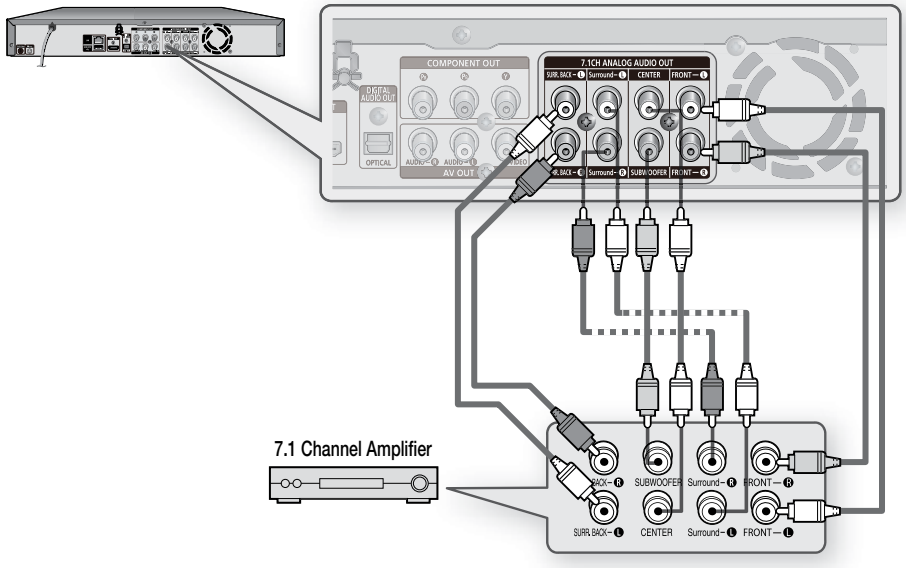
CONNECTING TO AN AUDIO SYSTEM (7.1 CHANNEL AMPLIFIER)

1. Using the audio cables, connect the **7.1 ANALOG AUDIO OUT (Front R, Front L, CENTER, SUBWOOFER, Surround L, Surround R, SURR.BACK L , SURR.BACK R)** terminals on the rear of the Blu-ray Disc player to the **7.1 Channel ANALOG AUDIO IN (Front R, Front L, CENTER, SUBWOOFER, Surround L, Surround R, SURR.BACK L , SURR.BACK R)** terminals of your Amplifier.
2. Using the video signal cable(s), connect the **HDMI**, **COMPONENT**, or **VIDEO OUT** terminals on the rear of the Blu-ray Disc player to the **HDMI**, **COMPONENT**, or **VIDEO IN** terminal of your TV as described on pages 20 to 24.
3. Turn on the Blu-ray Disc player, TV and Amplifier.
4. Press the input select button of the Amplifier to select **external input** in order to hear sound from the Blu-ray Disc player. Refer to your Amplifier's user manual to set the Amplifier's audio input.



- Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
- Please set the audio in the menu screen according to the Amplifier. (See pages 36~37)
- The position of terminals may vary depending on the Amplifier. Please refer to the user's manual of your Amplifier.
- The front left and right outputs on your player and 7.1 channel amplifier must be connected to hear disc menu audio from certain Blu-ray discs.
- When connecting to a 5.1 channel home theater or receiver, connect all the Analog Audio output jacks from the player except for the Surround Back Left/Surround Back Right outputs.

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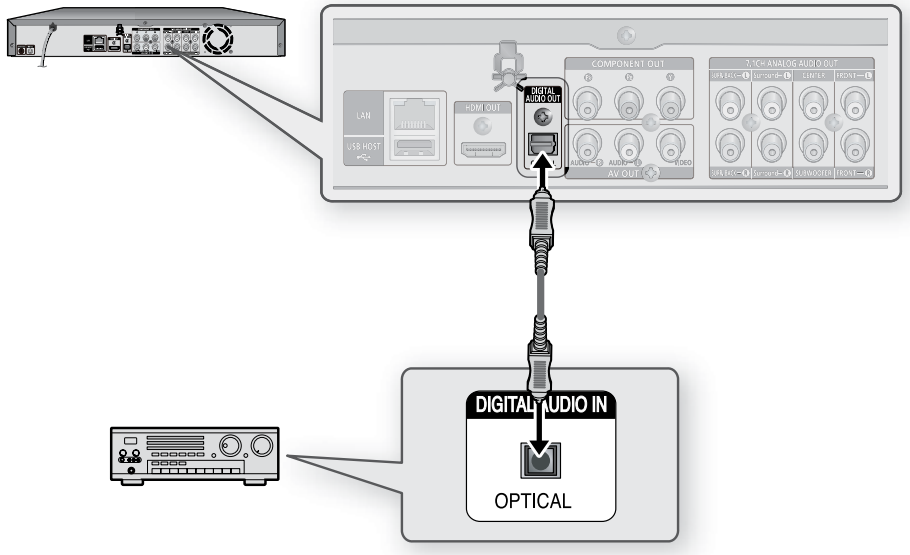
CONNECTING TO AN AUDIO SYSTEM (DOLBY DIGITAL, DTS AMPLIFIER)

1. Using the optical cable (not included), connect the **DIGITAL AUDIO OUT (OPTICAL)** terminal on the rear of the Blu-ray Disc Player to the **DIGITAL AUDIO IN (OPTICAL)** terminal of your Amplifier.
2. Using the video signal cable(s), connect the **HDMI** , **COMPONENT** or **VIDEO OUT** terminals on the rear of the Blu-ray Disc Player to the **HDMI**, **COMPONENT** or **VIDEO IN** terminals of your TV as described on pages 20 to 24.
3. Turn on the Blu-ray Disc Player, TV, and Amplifier.
4. Press the input select button of the Amplifier to select the **external input** in order to hear sound from the Blu-ray Disc Player. Refer to your Amplifier's user manual to set the Amplifier's audio input.



- Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
- Please set the audio in the menu screen according to the Amplifier. (See pages 35~36)
- The position of terminals may vary depending on the Amplifier. Please refer to the user's manual of your Amplifier.
- When using this connection, discs with LPCM audio soundtracks will only be heard over the front two channels.

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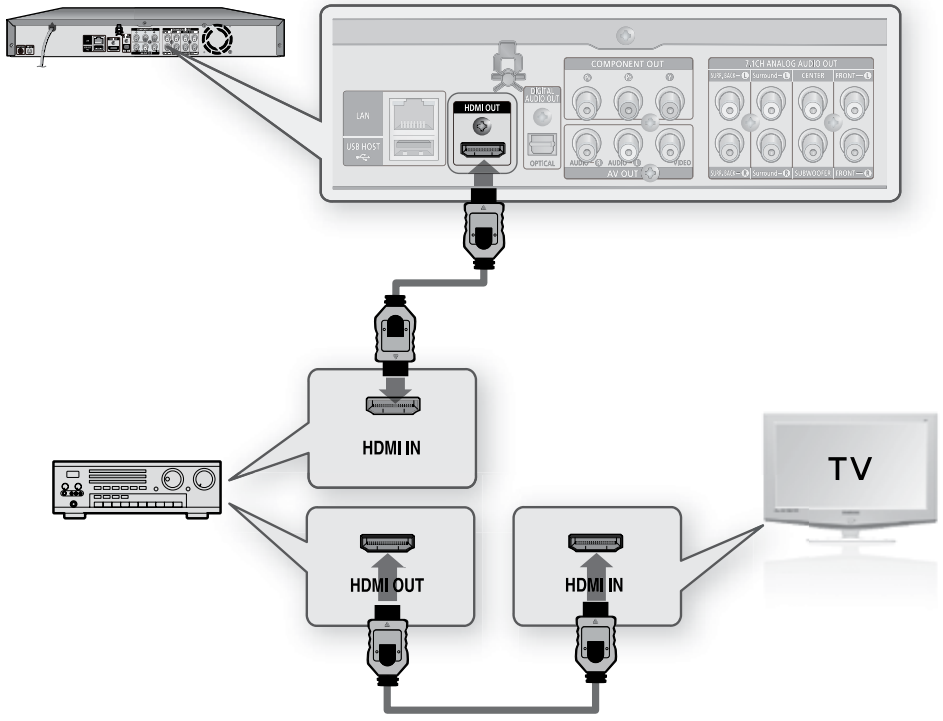
CONNECTING TO AN AUDIO SYSTEM (HDMI SUPPORTED AMPLIFIER)

1. Using the HDMI-HDMI cable (not included), connect the **HDMI OUT** terminal on the rear of the Blu-ray Disc Player to the **HDMI IN** terminal of your Amplifier.
2. Using the HDMI-HDMI cable, connect the **HDMI OUT** terminal of the Amplifier to the **HDMI IN** terminal of your TV.
3. Turn on the Blu-ray Disc Player, TV, and Amplifier.
4. Press the input select button of the Amplifier to select **external input** in order to hear sound from the Blu-ray Disc Player. Refer to your Amplifier's user manual to set the Amplifier's audio input.



- Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.
- Please set the audio in the menu screen according to the Amplifier. (See pages 35~36)
- The position of HDMI terminals may vary depending on the Amplifier. Please refer to the user's manual of your Amplifier.

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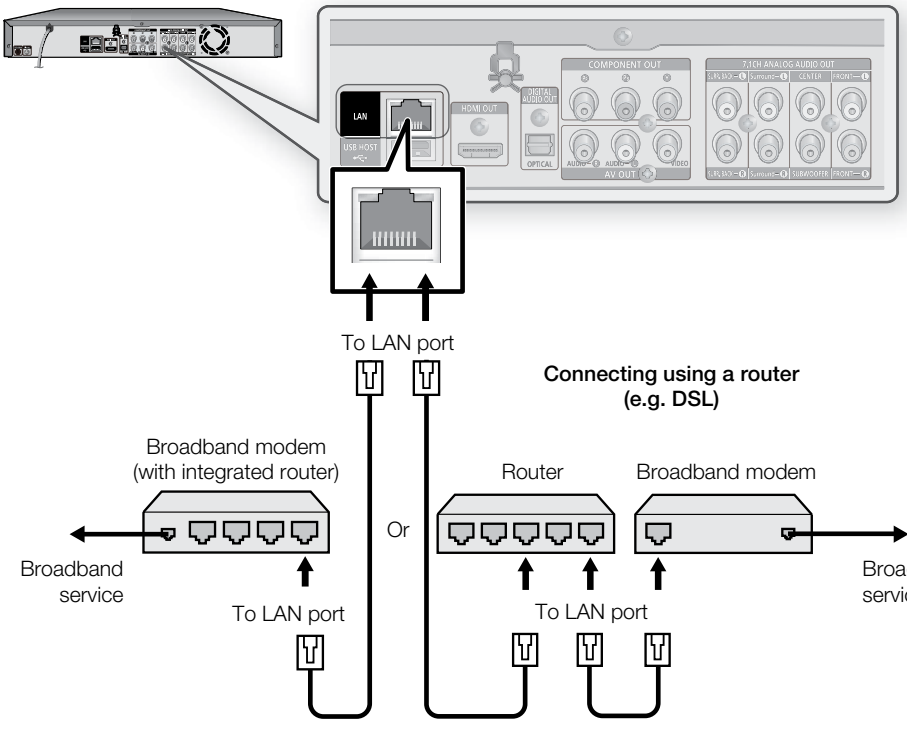
CONNECTING TO THE NETWORK

You can use a LAN adaptor to connect to network service or upgrade the current firmware.

1. Using the Direct LAN Cable (UTP cable, not included), connect the LAN terminal on the rear of the Blu-ray Disc Player to the LAN terminal of your modem.
   - Connect to access the BD-LIVE service.
   - Connect to access Netflix or Pandora.
   - Connect for software upgrades from Samsung's update server. (see pages 50 to 52)



- Internet access to Samsung's update server may not be allowed, depending on the router you use or the ISP's policy. For more information, contact your ISP (Internet Service Provider).
- For DSL users, please use a router to make a network connection.

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basic functions of your Blu-ray Disc Player

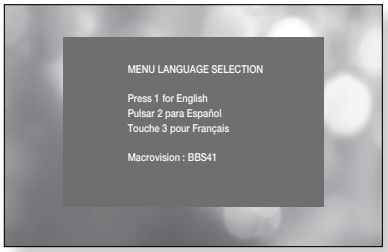
This section introduces basic playback functions and playback by disc type.

BEFORE PLAYING

- Turn on your TV and set it to the correct Video Input (the input the Blu-ray Disc Player is connected to).
- If you connected an external Audio System, turn on your Audio System and set it to the correct Audio Input.

After plugging in the player, the first time you press the **POWER** button, this screen comes up:

If you want to select a language, press a **NUMBER** button. (This screen will only appear when you plug in the player for the first time.) If the language for the startup screen is not set, the settings may change whenever you turn the power on or off. Therefore, make sure that you select the language you want to use. Once you select a menu language, you can change it by pressing the ⏭ button on the front panel of the unit for more than 5 seconds with no disc in the unit. Then the MENU LANGUAGE SELECTION window appears again where you can reset your preferred language.



- Discs which can be played on this player (For the following discs, the ability to play back may depend on recording conditions.)
  - BD-ROM
  - BD-RE
  - BD-R
  - DVD-R
  - DVD-RW (V mode)
  - CD-RW/CD-R
  - The unit may not play certain CD-RW/CD-R and DVD-R due to the disc type or recording conditions.
- Discs which cannot be played on this player.
  - HD DVD
  - DVD+RW
  - DVD+R
  - DVD-ROM
  - DVD-RAM
  - CDV
  - CD-ROM
  - CVD
  - CD-I
  - Super Audio CD(except CD layer)
  - CDGs play audio only, not graphics.
- Blu-ray is a new and evolving format. Accordingly, disc compatibility issues with new and existing format discs are possible. Not all discs are compatible and not every disc will playback.
  For additional information, refer to the Disc Type and Characteristics and Compliance and Compatibility Notice sections of this Manual. If you encounter compatibility problems, please contact SAMSUNG customer care center.
- The unit cannot play CD-RW/CD-R and DVD-RW/-R with recorded content such as divx, avi, mpg, mov, wma, mp3, digital photo view(JPEG) file.

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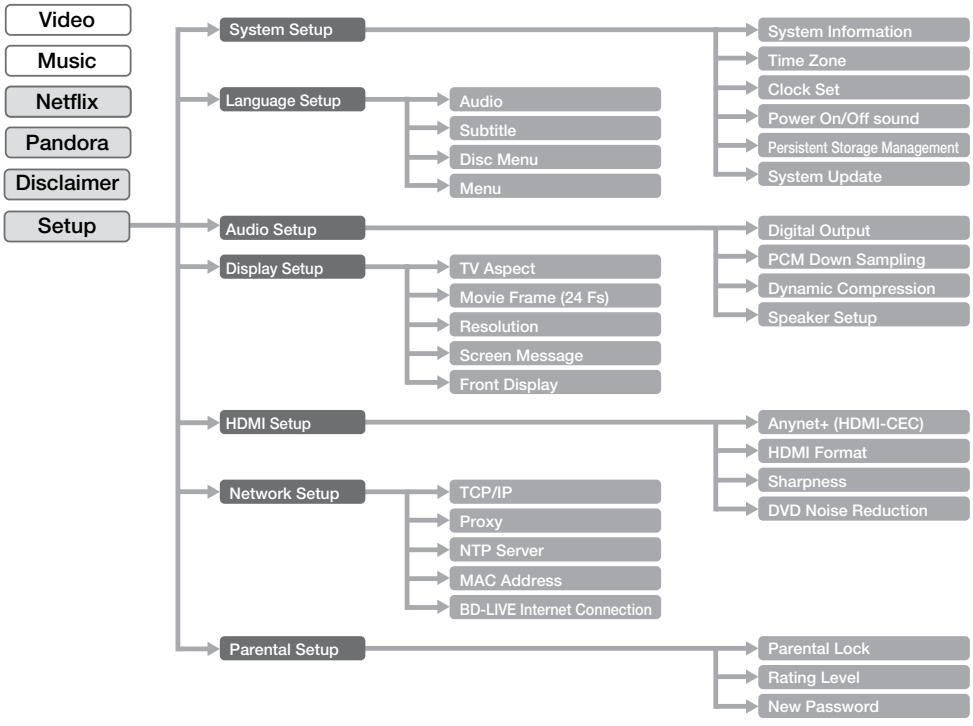
ON-SCREEN MENU NAVIGATION



PLAYING A DISC

1. Press the **OPEN/CLOSE** (⏏) button.
   The STANDBY indicator light goes out and the tray opens.
2. Place a disc gently into the tray with the disc's label facing up.
3. Press the **PLAY** (▶) button or **OPEN/CLOSE** (⏏) button to close the disc tray.

- When you stop disc play, the player remembers where you stopped, so when you press **PLAY** (▶) button again, it will pick up where you left off.
  In some BD discs(BD-J), this function can be prohibited.
- Press the **STOP** (■) button twice during playback to disable the Resume function.
- To pause the playback, press the **PAUSE** (❚❚) button during playback.
  To resume, press the **PLAY** (▶) button.
- If the player is left in the stop mode more than 5 minutes without any user interface, a screen saver will appear on your TV. If the player is left in the screen saver mode for more than 30 minutes, the power will automatically turn off except during playback of an CDDA (Automatic Power-Off Function).
- If no input is entered for more than 5 minutes in pause mode, the operation will stop (except for some Blu-ray discs).

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basic functions of your Blu-ray Disc Player

SETTING THE POWER ON / OFF MELODY SOUND

When you turn the player on or off, a melody sound is produced.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System Setup**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Power On/Off sound**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select **Off** or **On**, then press the **ENTER** or ► button.
6. Press the **MENU** button to exit the setup menu.

USING THE SEARCH AND SKIP FUNCTIONS

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching through a Chapter or Track

During playback, press the **SEARCH** (◄◄ ►►) button.

- If you press the **SEARCH** (►►) button, the playback speed is increased to ►► X2 ►► X4 ►► X8 ►► X16 ►► X32 ►► X128
- If you press the **SEARCH** (◄◄) button, the playback speed is increased to ◄◄ X2 ◄◄ X4 ◄◄ X8 ◄◄ X16 ◄◄ X32 ◄◄ X128
- To return to normal speed playback, press the **PLAY** (►) button.

■ No sound is heard during search mode.

Skipping Tracks

During playback, press the **SKIP** (⏮ ⏭) button.

When playing a Blu-ray Disc/DVD, if you press the **SKIP** (⏭) button, it moves to the next chapter. If you press the **SKIP** (⏮) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.

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SLOW MOTION PLAY/STEP MOTION PLAY

Slow Motion Play

During playback, press the **SLOW** button on the remote control.

- If you press the **SLOW** button, the playback speed is reduced to ▮▶1/8 ▮▶ 1/4 ▮▶ 1/2
- To return to normal speed playback, press the **PLAY** (▶) button.

- This (⊘) icon indicates an invalid button press.
- No sound is heard during slow mode.
- Slow motion operates only in the forward direction.

Step Motion Play

In pause mode, press the **PAUSE** (❚❚) button.

- Each time the **PAUSE** (❚❚) button is pressed a new frame will appear.
- To return to normal speed playback, press the **PLAY** (▶) button.

- No sound is heard during step mode.
- Step motion operates only in the forward direction.

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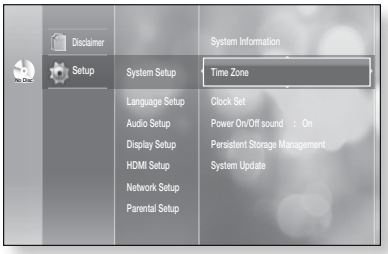
system setup

For your convenience, you can set this player's features for the best use in your home environment.

SETTING THE CLOCK

Choose your time zone

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System Setup**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Time Zone**, then press the **ENTER** or ► button.
5. Use the ◄► button to place the cursor to the appropriate time zone for your area and press the **ENTER** button.

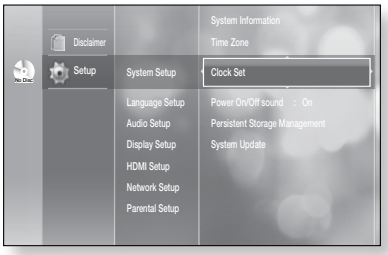


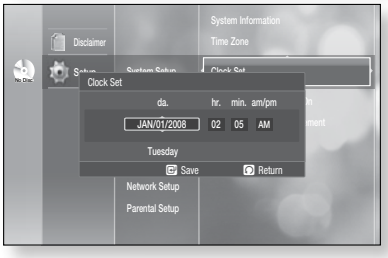
■ To set the time automatically, set the NTP server to **On** (see page 47).

Set the clock

To setup, follow steps 1 through 3 above.

4. Press the ▲▼ buttons to select **Clock Set**, then press the **ENTER** or ► button.
5. Press the ◄► buttons to move to "**da.**"(date), "**hr**" (hour), "**min**" (minute) and "**am/pm**". Set the date and time by pressing the ▲▼ buttons, then press the **ENTER** button.





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language setup

SETTING UP THE LANGUAGE OPTIONS

Once you set the audio, subtitle, disc menu and player menu language options, they will be applied automatically every time you watch a movie.

- If you want to choose a different audio and subtitle language while playing a disc, you can also use the disc menu to make the selection.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **Language Setup**, then press the **ENTER** or ► button.
   Language setup menu will be displayed.

4. Press the ▲▼ buttons to select the desired language option, press the **ENTER** or ► button.

   - **Audio** : For the disc audio language.
   - **Subtitle** : For the disc subtitles.
   - **Disc Menu**: For the disc menu contained on the disc
   - **Menu**: For the on-screen menu of your Blu-ray Disc Player.

5. Press the ▲▼ buttons to select the desired language, then press the **ENTER** button.

- Press the **RETURN** or ◄ button to return to the previous menu. Press the **MENU** button to exit the menu.
- The selected language will only appear if it is supported on the disc.

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audio setup

SETTING UP THE AUDIO OPTIONS

Allows you to set up the Audio device and sound status depending on the audio system being used with the player.

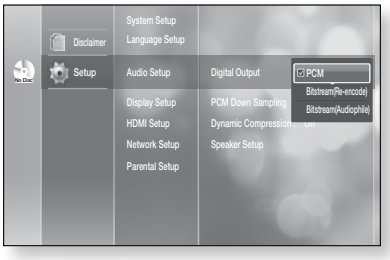
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Audio Setup**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select the desired audio option from the options described below, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select the desired item, then press the **ENTER** button.
6. Each audio option is described in detail below.

■ Press the **RETURN** or ◄ button to return to the previous menu. Press the **MENU** button to exit the menu.

Digital Output

Blu-ray Discs may include three audio streams.

- Primary Audio : Main audio soundtrack of the disc
- Secondary Audio : Provides audio for the BONUSVIEW window of a Blu-ray Disc.
- Effect Audio : You may hear menu prompt sounds (etc.) when selecting menu items (depending on the disc), on a Blu-ray Disc.



Digital Output Selections

Setup	Definition	Pro	Con	Recommended use
PCM	Decodes Primary, Secondary and Effect audio streams together into PCM audio.	You can enjoy Primary, Secondary and Effect audio together. You can also enjoy Dolby TrueHD sound even if your receiver cannot decode Dolby TrueHD.	You cannot hear DTS-HD Master Audio sound with this setting even if you have an HDMI 1.3 receiver which has DTS-HD Master Audio decoding capability.	Recommended choice if you have an HDMI 1.1 or HDMI 1.2 receiver which cannot decode DTS-HD Master Audio. Also recommended if you are using an optical cable for audio and your receiver cannot decode Dolby Digital or DTS.
Bitstream (Re-encode)	Decodes Primary, Secondary and Effect audio streams together into PCM audio, then re-encodes the PCM audio into DTS bitstream.	You can enjoy Primary, Secondary and Effect audio together.	Audio quality may be lower than PCM or Bitstream (Audiophile) setups.	Recommended choice if you don't have an HDMI supported receiver, but have a receiver with an Optical input that can decode DTS.
Bitstream (Audiophile)	Outputs only the Primary audio soundtrack (main soundtrack of the movie) so that your receiver can decode the audio bitstream.	You can enjoy DTS-HD Master Audio sound if you have HDMI 1.3 receiver which has DTS-HD Master Audio decoding capability.	You will not hear Secondary and Effect audio.	Recommended choice if you have an HDMI 1.3 receiver which has DTS-HD Master Audio decoding capability.

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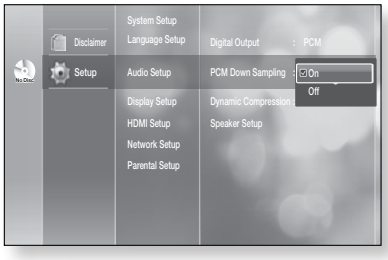
- If you have selected a LPCM soundtrack on a disc, the output will automatically be set to PCM.
- Be sure to select the correct Digital Output or you will hear no sound or a loud noise.
- If the HDMI device (Receiver, TV) is not compatible with compressed formats (Dolby digital, DTS), the audio signal outputs as PCM.
- Secondary and Effect audio will not be heard with regular DVDs.
- Some Blu-ray Discs do not have Secondary and Effect audio.
- This Digital Output setup does not effect the analog (L/R) audio or HDMI audio output to your TV. It effects the optical and HDMI audio output when connected to a receiver.
- When the player outputs HD audio bitstream(Dolby TrueHD or DTS-HD Master Audio) from the Optical jack to an HDMI 1.3 receiver, only 2 channel PCM audio will be heard.
- If you play MPEG audio soundtracks, audio signal outputs PCM regardless of Digital Ouptut Selections(PCM or Bitstream).

PCM Down Sampling

- **On** : Select this when the Amplifier connected to the player is not 96KHz compatible. 96KHz signals will be down converted to 48KHz
- **Off** : Select this when the Amplifier connected to the player is 96KHz compatible. Signals will be output without any changes.



- Even when PCM Down Sampling is set to Off, some discs will only output downsampled audio through the optical digital outputs.

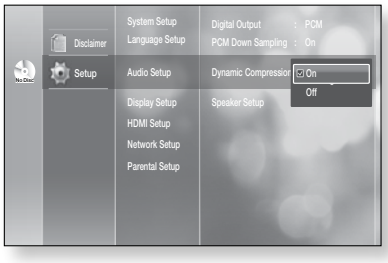
HDMI

- If your TV is not compatible with compressed multi-channel formats (Dolby Digital, DTS), the unit may output PCM 2ch downmixed audio even though you set Bitstream(either Re-encode or Audiophile) on your setup menu.
- If your TV is not compatible with PCM sampling rates over 48kHz, the unit may output 48kHz downsampled PCM audio even though you set "PCM Down Sampling" as "Off".

Dynamic Compression

This is only active when a Dolby Digital signal is detected.

- **Off** : You can enjoy the movie with the standard Dynamic Range.
- **On** : When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.



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Speaker Setup

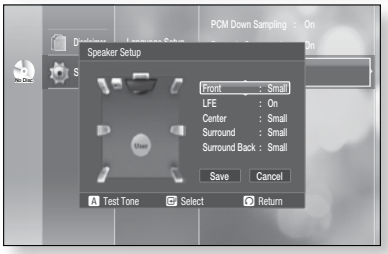
If you have connected this player to an Amp/Receiver or Home theater via the 7.1 channel Analog outputs you need to set the Speaker Options for the best sound.

To setup, follow steps 1 to 3 in "Setting up the Audio Options" on page 36.

4. Press the ▲▼ buttons to select **Speaker Setup**, then press the **ENTER** or ► button.

5. Press the ▲▼ buttons to select the desired Speaker, then press the **ENTER** button to change speaker setup.

6. When done, use the ▲▼ buttons to select **Save**, then press the **ENTER** button.
   If you don't want to save your settings, use the ▲▼◄► buttons to select **Cancel**, then press the **ENTER** button.



Speaker Setup

Front (L, R)	Large, Small
Center (C)	Large, Small, None
Surround (LS, RS)	Large, Small, None
Subwoofer (LFE)	On, Off
Surround Back (LSB, RSB)	Large, Small, None

Speaker

- **Large** : Delivers full bandwidth sound with bass below 100 Hz.
- **Small** : If LFE is on, bass below 100 Hz will be outputted through a Subwoofer instead of the speakers. If LFE is off and the Front Speaker is set to Large, sound will be outputted through the Front Speaker.
- **None** : Select to disable the speakers.

Subwoofer Speaker

- **On** : Select to use the subwoofer speaker.
- **Off** : Select to disable the subwoofer speaker.
  (This option can only be selected when the Front (L+R) speakers are set to Large.)

Press the RED(A) button

- A test tone will be sent to **L → C → R → RS → RSB → LSB → LS → LFE** in order so you can make sure the speakers are set up correctly.
- To end the test tone, press the **RED (A)** button again.
- The test tone can only be activated when no discs are in the unit.
- The test tone outputs through the 7.1 channel analog outputs only.

■ Press the **RETURN** to return to the previous menu.

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display setup

SETTING UP THE DISPLAY OPTIONS

This function allows you to setup the TV screen settings. This function depends on the disc or TV type. It may not work with some discs or TVs.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Display Setup**, then press the **ENTER** or ► button.
   Video setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired display option from the options on the following pages.
5. Press the ▲▼ buttons to select the desired sub-menu item from a video display option, then press the **ENTER** button.
6. Each video option is described in detail below.

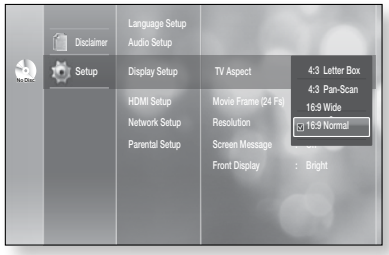
▪ Press the **RETURN** or ◄ button to return to the previous menu. Press the **MENU** button to exit the menu.

TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

• **4:3 Letter Box :**
Select when you want to see the total 16:9 ratio screen Blu-ray Disc/DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

• **4:3 Pan-Scan :**
Select when you want to see the 16:9 video supplied by the Blu-ray Disc/DVD without the black bars on top and bottom, even though you have a TV with a 4:3 ratio screen(Extreme left and right portion of the movie picture will be cut off).



• **16:9 Wide :**
You can view the full 16:9 picture on your widescreen TV.

• **16:9 Normal :**
Certain movies(4:3 source) will be displayed in 4:3 Pillarbox (black bars on sides of picture) if 16:9 normal is selected.

▪ Depending on the disc type, some aspect ratios may not be available.
▪ If you select an aspect ratio which is different than the aspect ratio of your TV screen, then the picture might appear to be distorted.

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Movie Frame (24 Fs)

Movies are usually filmed at 24 frames per second. Some Blu-ray discs have the capability of playing back at this frame rate. Setting the Movie Frame (24Fs) feature to ON allows you to adjust the Blu-ray Disc Player's HDMI output to 24 frames per second for improved picture quality.

You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate.

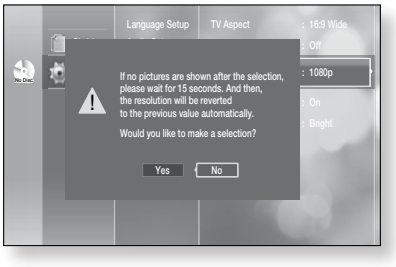
This menu can only be selected in 1080i or 1080p HDMI output resolution modes.

Depending on the disc, two types of frame rates may be included: Movie material (24 frame) and Video material (30 frame). When the setting switches between Movie(24 frame) and Video (30 frame), the screen may blink for a few seconds.

Resolution

Sets the output resolution of the Component and HDMI video signal.

- The number in 480i, 480p, 720p, 1080p and 1080i indicates the number of lines of video. The i and p indicate interlace and progressive scan, respectively.
  - 1080p : Outputs 1080 lines of progressive video (HDMI only).
  - 1080i : Outputs 1080 lines of interlaced video.
  - 720p : Outputs 720 lines of progressive video.
  - 480p : Outputs 480 lines of progressive video.
  - 480i : Outputs 480 lines of interlaced video (Component only).


Language Setup
TV Aspect : 16:9 Wide
Off
: 1080p
On
Bright
If no pictures are shown after the selection, please wait for 15 seconds. And then, the resolution will be reverted to the previous value automatically.
Would you like to make a selection?
Yes
No

If the connected TV does not support Movie Frame or the selected resolution, you will see the following message:

If you select "Yes" and the resolution is not supported, the TV's screen will be blank. Please wait for 15 seconds and the resolution will be reverted to the previous value automatically.

- If the screen is blank, press and hold the ▶▶I button on the front of the player for more than 5 seconds (no disc inserted). All settings are restored to the factory default. Follow the steps on the previous page to access each mode and select the Display Setup that your TV will support.
- When the factory default settings are restord, all the user data stored in the persistent storage will be deleted.

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❖ Resolution according to the output mode

• Blu-ray Disc playback

Setup \ Output	HDMI	Component (HDMI&Comp. connected / Comp. connected only)	VIDEO
1080p, Movie Frame(24Fs) off	1080p@60F	1080i	480i
1080p/1080i, Movie Frame (24Fs) on	1080p@24F	480i / 1080i	480i
1080i, Movie Frame (24Fs) off	1080i	1080i	480i
720p	720p	720p	480i
480p	480p	480p	480i
480i	480p	480i	480i

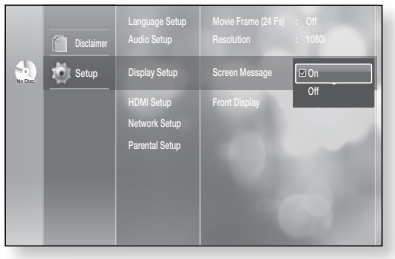
• DVD playback

Setup \ Output	HDMI	Component (HDMI&Comp. connected / Comp. connected only)	VIDEO
1080p	1080p@60F	480i / 480p	480i
1080i	1080i	480i / 480p	480i
720p	720p	480i / 480p	480i
480p	480p	480i / 480p	480i
480i	480p	480i	480i

- In DVD playback, if both HDMI and Component jacks are connected but you are currently viewing component output, the Display Setup menu will show the output resolution as 1080p. The resolution is actually 480i.
- This player has the HDMI Auto Detect Feature. When the player is first connected to a TV via HDMI, the player's output will be set automatically to HDMI.
- If the HDMI Auto Detection feature does not work, you can't select the 1080p resolution or Movie Frame (24Fs).
- The Blu-ray Disc must have the 24 frame feature in order to use the Movie Frame (24Fs) mode.

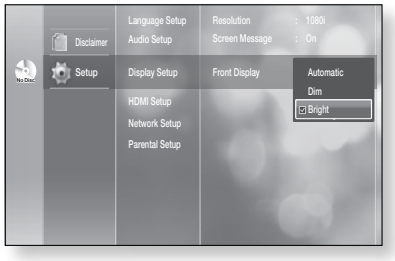
Screen Message

• **On** : Displays messages related to operation mode.
• **Off** : Does not display messages related to operation mode.



Front Display

• **Automatic** : Display is dim during playback and bright when the unit is in Stop mode.
• **Dim** : Select to dim the display window.
• **Bright** : Select to brighten the display window.



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HDMI setup

SETTING UP THE HDMI SETUP OPTIONS

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **HDMI Setup**, then press the **ENTER** or ► button.
   HDMI setup menu will be displayed.
4. Press the ▲▼ buttons to select the desired display option (Anynet or Format), then press the **ENTER** or ► button.

Anynet+ (HDMI-CEC) (Only Samsung products)

When HDMI is set to on, you can operate the Anynet+ function.

- **On :** Anynet+ functions will work.
- **Off :** Anynet+ function will not work.

What is Anynet+?

Anynet+ is a convenient function that offers linked operations with other Samsung products with the Anynet+ feature.

You can operate this unit using a Samsung TV remote control or power on your Samsung TV and Home theater and start disc playback simply by pressing the **PLAY** button on the TV's remote.

▪ This function is not available if the HDMI cable does not support CEC.

To use Anynet+

1. Connect the **Blu-ray Disc Player** to a Samsung TV with an HDMI cable. (See pages 20~21)
2. Set the Anynet+ (HDMI CEC) to "On" on your **Blu-ray Disc Player**.
3. Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)

Anynet+ Functions

- One touch play
  You can power on your Samsung TV and Home Theater, and play the disc in this unit simply by pressing the **PLAY** button on the TV's remote.
- One touch watching
  Select "Watching Blu-ray Disc Player" or "Connected to Blu-ray Disc Player" (depending on your TV's menu) in the Anynet+ menu on the TV. The Blu-ray Disc Player will automatically turn on and the TV will be switched to HDMI mode.
- Remote control Link
  You can operate this player with your Samsung TV remote control.
- Available buttons on the Samsung TV remote: These buttons work the same as this Blu-ray Disc player's remote control.
  - Playback control buttons :
  - Menu operation button :
  - Numeric buttons : 0 ~ 9
  - Color buttons : A B C D

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TV Anynet+ Menu

When you press the Anynet+ button on your Samsung TV's remote control, the following On-Screen Display (OSD) will be shown.

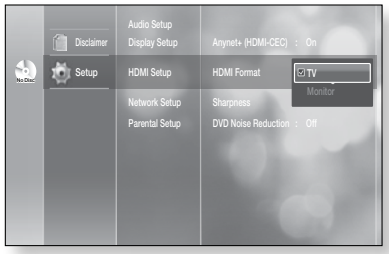
- Blu-ray Disc Player Menu
  - When playing a movie : brings up the disc's menu (same as **DISC MENU** button on the Blu-ray Disc Player's remote control)
  - In Stop mode : brings up the SETUP menu (same as the **MENU** button on the Blu-ray Disc Player's remote control.)
- Blu-ray Disc Player Operation Menu
  - When playing a DVD VIDEO, DVD-RW/-R, BD-ROM, BD-RE : shows INFO OSD (same as **INFO** button on the player's remote control)

■ These menus may look different depending on your Samsung TV.

HDMI Format

You can optimize the HDMI output for connection to a TV or Monitor.

- **TV** : Select if connected to a TV via HDMI.
- **Monitor** : Select if connected to a Monitor via HDMI. If the player is connected to a TV, the Monitor option is unavailable.



■ TV or monitor has to be connected to the player before you select this option.

Sharpness

To adjust the sharpness of the picture.

(Off, Low, Middle, High)

DVD Noise Reduction

This setting can be used to reduce image noise on DVD discs on the screen.(Off, Low, Middle, High)
This feature does not work with Blu-ray Discs.

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parental setup

SETTING UP THE PARENTAL LOCK

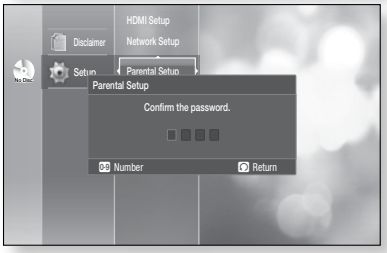
The Parental Lock function works in conjunction with Blu-ray Disc/DVDs that have been assigned a rating which helps you control the types of Blu-ray Disc/DVDs that your family watches. There are up to 8 rating levels on a disc.

BD-ROM DVD-VIDEO

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **Parental Setup**, then press the **ENTER** or ► button.
When you operate your Blu-ray Disc Player for the first time, t be displayed.

4. Enter the 4-digit password using the number buttons on the remote control.
The “Confirm the password” message will be displayed.
Enter your password again.



5. Press the **ENTER** or ► button to select **Parental Lock**.
6. Press the ▲▼ buttons to select **On** or **Off**, then press the **ENTER** button.

■ Press the **RETURN** or ◄ button to return to the previous menu. Press the **MENU** button to exit the menu.

If you forgot your password

1. Remove the disc.
2. Press and hold the ⏭ button on the front panel for 5 seconds or more.
   • All settings will revert to the factory settings.

■ When the factory default settings are restored, all the user data stored in the persistent storage will be deleted.

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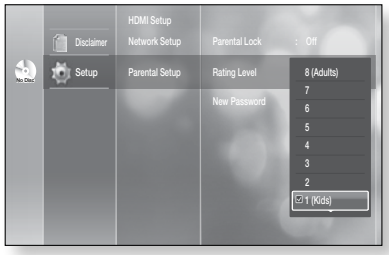
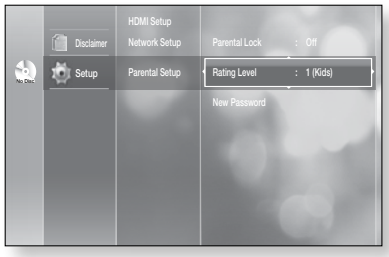
Setting the Rating Level

1. Press the ▲▼ buttons to select **Rating Level**, then press the **ENTER** or ► button.

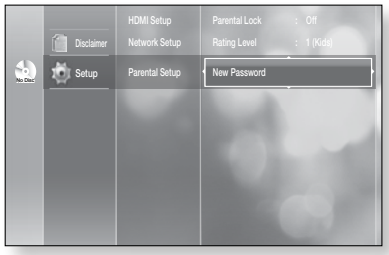


2. Press the ▲▼ buttons to select the rating level you want, then press the **ENTER** button. For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A larger number indicates that the program is intended for adult use only.
Level 1 is the most restrictive and Level 8 is the least.

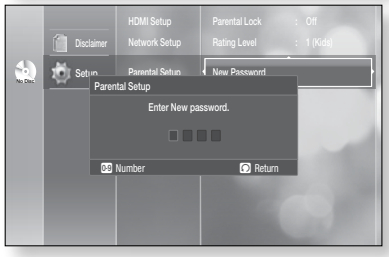


Changing the Password

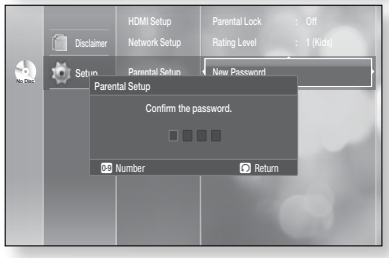
1. Press the ▲▼ buttons to select **New Password**, then press the **ENTER** or ► button.



2. Enter the 4-digit password using the number buttons on the remote control. The “Enter New password.” message will be displayed.



3. Enter your password again using the number buttons on the remote control.



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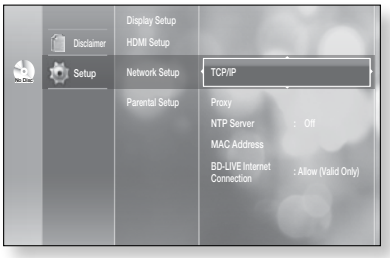
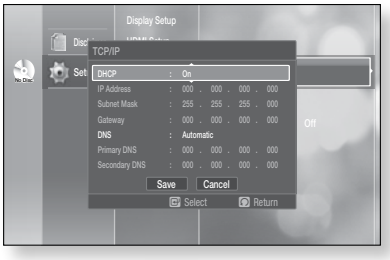
network setup

You can update your player via Samsung's server.
Follow the steps below to ensure the best connection to Samsung's server for your player.
To obtain information on the proper settings, check the network settings on your computer or contact your Internet provider.

TCP/IP SETTING

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Network Setup**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **TCP/IP**, then press the **ENTER** or ► button.
5. Press the ▲▼ buttons to select **DHCP**, then press the **ENTER** button.




Display Setup
TCP/IP
DHCP : On
IP Address : 000 . 000 . 000 . 000
Subnet Mask : 255 . 255 . 255 . 000
Gateway : 000 . 000 . 000 . 000
DNS : Automatic
Primary DNS : 000 . 000 . 000 . 000
Secondary DNS : 000 . 000 . 000 . 000
Save
Cancel
Select
Return

- If DHCP is set to On, you can't select IP Address, Subnet Mask or Gateway.
- If DNS is set to Automatic, you can't select Primary/ Secondary DNS.

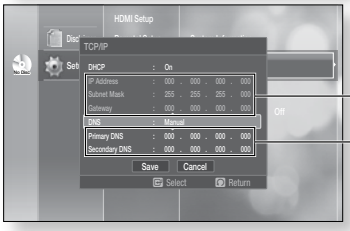
6. Press the ▲▼ buttons to select a desired item, then press the **ENTER** button.

- If DHCP is set to Off and, DNS to Manual, enter your IP Address, Subnet Mask, Gateway and Primary DNS settings (Secondary DNS is optional).

HDMI Setup
TCP/IP
DHCP : Off
IP Address : 000 . 000 . 000 . 000
Subnet Mask : 255 . 255 . 255 . 000
Gateway : 000 . 000 . 000 . 000
DNS : Manual
Primary DNS : 000 . 000 . 000 . 000
Secondary DNS : 000 . 000 . 000 . 000
Save
Cancel
Select
Return
Off

Setup available

- If DHCP is set to On and, DNS to Manual, enter your Primary DNS setting (Secondary DNS is optional).


HDMI Setup
TCP/IP
DHCP : On
IP Address : 000 . 000 . 000 . 000
Subnet Mask : 255 . 255 . 255 . 000
Gateway : 000 . 000 . 000 . 000
DNS : Manual
Primary DNS : 000 . 000 . 000 . 000
Secondary DNS : 000 . 000 . 000 . 000
Save
Cancel
Select
Return
Off

Setup not available

Setup available

- If DHCP is set to On and, DNS to Automatic, you don't need further or additional settings.

HDMI Setup
TCP/IP
DHCP : On
IP Address : 000 . 000 . 000 . 000
Subnet Mask : 255 . 255 . 255 . 000
Gateway : 000 . 000 . 000 . 000
DNS : Automatic
Primary DNS : 000 . 000 . 000 . 000
Secondary DNS : 000 . 000 . 000 . 000
Save
Cancel
Select
Return
Off

Setup not available

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- When you select an item, use the number and ▲▼◄► buttons.
- If the automatic settings don't work, contact your ISP.

7. When done, use the ▲▼ buttons to select **Save**, then press the **ENTER** button.
8. If you don't want to save your work, use the ▲▼◄► buttons to select **Cancel**, then press the **ENTER** button.

- The IP address used in this manual is for illustrative purposes only. You must refer to the your network settings for the actual IP address.
- To obtain settings for IP address, Subnet mask, Gateway and Primary DNS, check the network settings in your computer or contact your internet service provider.

PROXY SETTING

A proxy server services requests by forwarding them to other servers.
If you are required to configure the proxy setting, enter the settings specified by the ISP.
To setup, follow steps 1 to 3 in "TCP/IP Setting" on page 46.

4. Press the ▲▼ buttons to select **Proxy**, then press the **ENTER** or ► button.
   - **Server**
   - **Port**
   - **User**
   - **Password**

- For more information, contact your ISP (Internet Service Provider).

NTP SERVER SETTING (USED TO RETRIEVE TIME INFORMATION FROM NTP SERVER)

To setup, follow steps 1 to 3 in "TCP/IP Setting" on page 46.

4. Press the ▲▼ buttons to select **NTP Server** , then press the **ENTER** or ► button.
   - **On** : the player automatically connects to the Internet server in order to adjust the time setting.
   - **Off** : the player does not connect to the Internet server to adjust the time setting.

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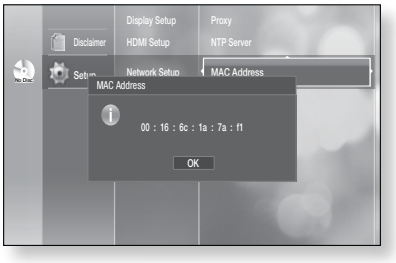
network setup

MAC ADDRESS

Displays the MAC address of the player.
A MAC address(Media Access Control address) is a unique identifier attached to most network adapters. It is a address that acts like a name for a particular network adapter. It cannot be changed.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Network Setup**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Mac Address**, then press the **ENTER** or ► button.
   The MAC address appears.



- Samsung shall not be responsible for any malfunction or failed operation due to Internet connection failure or a communication error. Samsung is also not responsible for failure of the user's Internet connection.
- You may not be able to access some Internet services depending on the limitations of your Internet service provider.
- Any fee charged for Internet connection is solely your responsibility.
- A DSL modem is needed to use DSL service. You may have agreed with your ISP (Internet Service Provider) on the number of concurrent internet connection devices. Under the agreement, your PC and Blu-ray Disc Player may not use the network simultaneously.
- You may not be allowed to use a router under your ISP's policy.

BD-LIVE INTERNET CONNECTION

The Internet connection may be restricted while you are using BD-LIVE contents.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **Network Setup**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **BD-LIVE Internet Connection**, then press the **ENTER** or ► button.

- **Allow (All)** : The Internet connection will be allowed for all BD LIVE contents.
- **Allow (Valid Only)** : The Internet connection will be allowed only for BD-LIVE contents containing a valid certificate..
- **Prohibit** : No Internet connection will be allowed for any BD LIVE content.

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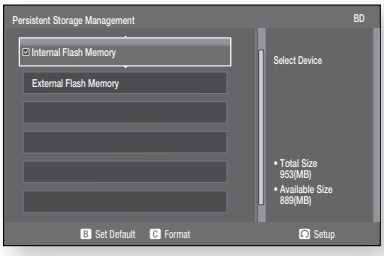
persistent storage management

Persistent Storage (Internal Flash Memory : Approx.1G Byte) is built-in memory on the player for storing Blu-ray Disc content. Persistent Storage (Internal Flash Memory : Approx.1G Byte) is where additional content such as trailers and other special features downloaded from Blu-ray discs is stored on the player.

SYSTEM DEVICE MANAGEMENT

You can manage user data stored in persistent storage.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System Setup**, then press the **ENTER** or ► button.
4. Press the ▲▼ buttons to select **Persistent Storage Management**, then press the **ENTER** or ► button.



- **To format the flash memory** -

Use the ▲▼ button to select an internal/external flash memory that you want to format and press the **YELLOW (C)** button.

Description of Device(Storage) Information on the Player

- Total Size : Total size of the Device(Storage).
- Available Size : Available size of the Device(Storage).

- Memory size information on the current device(storage) is located to the right of the PSM menu.
- In the external memory mode, disc playback will be stopped if you disconnect the USB device in the middle of the playback.
- It is recommended to use an USB device that supports USB 2.0 protocols, FAT32 format and 4MB or more read / write speed.
- The function of Resume Play may not work after formatting the storage device.

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system upgrade

Samsung may offer upgrades to your Blu-ray Disc Player's firmware in the future. To upgrade this firmware you must :

1. Go to samsung.com and refer to the 'SUPPORT' page to download the latest firmware.
   You can use a CD-R or a USB flash drive to perform the firmware upgrade. For more information, see "Upgrade Manual" at the website mentioned above.

   or
2. Connect this player's LAN terminal to the LAN terminal on your modem (see page 29) and follow the steps below.

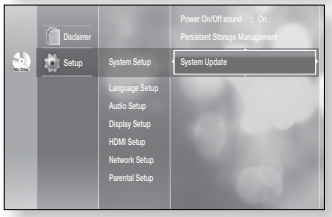
FIRMWARE UPGRADE

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.

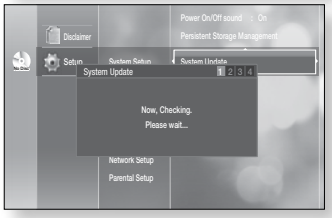
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

3. Press the ▲▼ buttons to select **System Setup**, then press the **ENTER** or ► button.

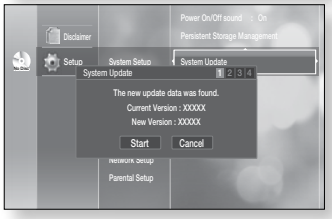
4. Press the ▲▼ buttons to select **System Update**, then press the **ENTER** or ► button.



5. The player will check the cable or network connection status automatically. The connection checking window will be displayed.

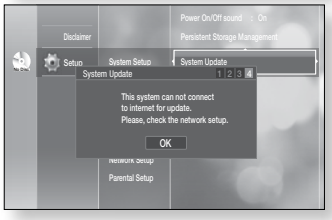


■ If the upgrade is possible : You will see information on the current and new versions of firmware in a message box.



■ If the upgrade is not possible : You will see the following description in the message box.

- If the cable is not connected :
  "Ethernet cable is not connected. Please, check the Ethernet cable"
- If the network connection has failed :
  "This system can not connect to internet for update. Please, check the network setup"
- If no latest version is released (the latest version has been already installed) :
  "The latest version of the firmware is already installed. There is no need to update."
- If there is a disc in the player :
  "Please maintain "No Disc" state for network update."
  This indicates that you must remove all discs from the unit to perform the update.
- If the server service is not available :
  " Update Server is under maintenance. Please try again later."



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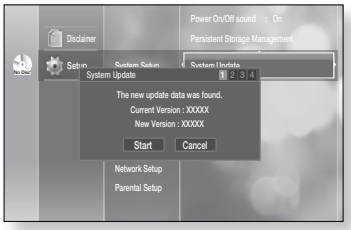
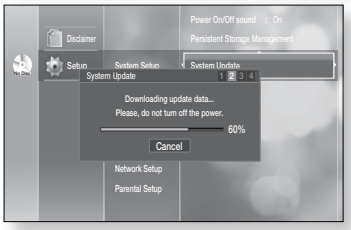
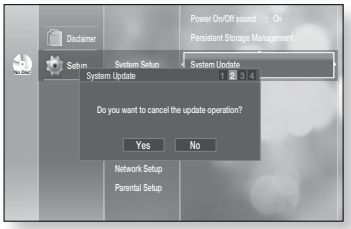
6. To perform the system upgrade, press the ◄► buttons to select **Start** and then press the **ENTER** button.



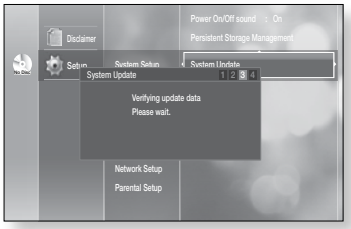
7. The system update gets started.



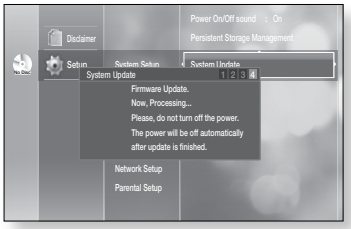
8. If you select Cancel during the download process, you are prompted to confirm your selection in a message box.
If you want to cancel the download, select **Yes** and press the **ENTER** button.



9. Verification will proceed. When download is done, the firmware update process will begin automatically.



10. When the installation is done, the player will automatically turn off in 5 seconds.
All settings will revert to the factory settings the next time you start the system and you will see the menu language selection window.



- If you want to cancel the upgrade in the process of downloading the upgrade data, press the **ENTER** button. You will see a confirmation message.
  Selecting "**Yes**" will end the upgrade process, and selecting "**No**" will continue the upgrade process.
- When the system upgrade is done, check the firmware details in the System Upgrade menu.
- Do not turn off the player during the System Upgrade, as it may cause the player to not work properly.
- Software upgrades using the USB Host jack supports only a USB flash drive.
  Other USB devices(ex. MP3 player) are not guaranteed to work.
- There should be only one firmware upgrade file in USB flash drive for the player to perform upgrade properly.
- Oversized USB drives may not be able to be inserted when a LAN or HDMI cable is connected.

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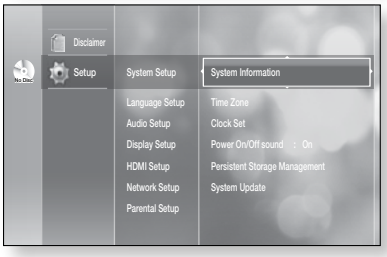
system upgrade

SYSTEM INFORMATION

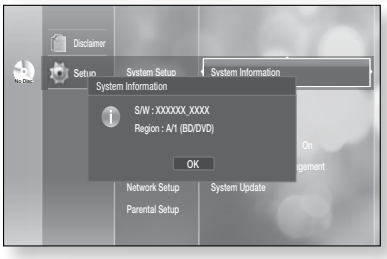
When the firmware upgrade is done, check the firmware details by following the steps below.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.
3. Press the ▲▼ buttons to select **System Setup**, then press the **ENTER** or ► button.

4. Press the ▲▼ buttons to select **System Information**, then press the **ENTER** or ► button.
   You can see detailed information about the current firmware.



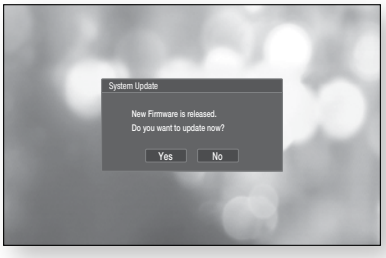
5. Press the **ENTER** button to select **OK**.
   System Setup menu will be displayed.



FIRMWARE UPGRADE NOTIFICATION

The popup menu appears when a newer version of the firmware is available from SAMSUNG update server than that of the Blu-ray Disc Player, if the Blu-ray Disc Player is connected to network and powered on.

- **YES**: Select this to upgrade now.
- **NO**: Select this if you plan to upgrade later.



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USING THE DISPLAY FUNCTION

BD-ROM BD-RE BD-R DVD-VIDEO DVD-RW DVD-R

1. During playback, press the **INFO** button on the remote control.
   - If the current title of a Blu-ray Disc has the BONUSVIEW feature, press the INFO button in the BONUSVIEW section to display BONUSVIEW-related information.
2. Press the ▲▼ buttons to select the desired item.
3. Press the ◄► buttons to make the desired setup change and then press the **ENTER** button.
   - You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from a desired time.
4. To make the screen disappear, press the **INFO** button again.

<INFO menu for the BONUSVIEW section>

- If you are playing contents from the info menu, some functions may not be enabled depending on the disc.
- Title : To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a Blu-ray Disc/DVD, each movie will be identified as a Title.
- Chapter: Most Blu-ray Disc/DVD discs are recorded in chapters so that you can quickly find a specific chapter.
- Audio : Refers to the film's soundtrack language. A Blu-ray Disc can contain up to 32 audio languages and a DVD up to 8.
- Playing Time : Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some discs.
- Subtitle : Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A Blu-ray Disc can contain up to 255 subtitle languages, and a DVD up to 32.
- Angle : When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can use the ANGLE function.
- BONUSVIEW Video/ BONUSVIEW Audio : You can make BONUSVIEW Video or BONUSVIEW Audio settings if the current title of a Blu-ray Disc appears in the BONUSVIEW section. The BONUSVIEW Video / BONUSVIEW Audio options, however, will be disabled with a Blu-ray Disc that does not support the BONUSVIEW feature.

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watching a movie

USING THE DISC MENU & POPUP/TITLE MENU

Using the Disc Menu

BD-ROM DVD-VIDEO

1. During playback, press the **DISC MENU** button on the remote control.
2. Press the ▲▼◄► buttons to make the desired selection, then press the ► or **ENTER** button.
   • The Disc menu setup items may vary from disc to disc.

■ Depending on the disc, the Disc Menu may not be available.

Using the Title Menu

DVD-VIDEO

1. During playback, press the **TITLE MENU** button on the remote control.
2. Press the ▲▼◄► buttons to make the desired selection, then press the **ENTER** button.
   • The Title menu setup options may vary from disc to disc.

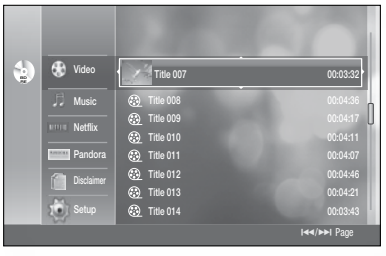
■ Depending on the disc, the Title Menu may not be available.

■ Title Menu will only be displayed if there are at least two titles in the disc.

Playing the Title List

BD-RE BD-R

1. With the unit in Stop mode/Playback mode, press the **DISC MENU or TITLE MENU** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the ► or **ENTER** button.
   The selected entry (title) will be played back.



- Go to Playlist -
To go to the Playlist, press the **RED(A)** button

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Using the Popup Menu

BD-ROM

1. During playback, press the **POPUP MENU** button on the remote control.
2. Press the ▲▼◄► buttons or **ENTER** button to select the desired menu.
   - The Popup menu setup options may vary from disc to disc.

▪ Depending on the disc, the Popup Menu may not be available.

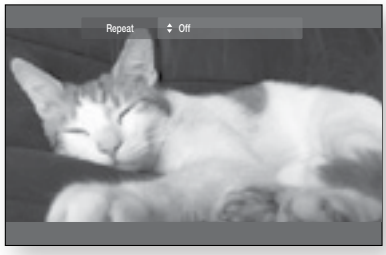
REPEAT PLAY

Repeat the current chapter or title.

Repeat playback

BD-ROM BD-RE BD-R DVD-VIDEO DVD-RW DVD-R

1. During playback, press the **REPEAT** button on the remote control. Repeat screen appears.



2. Press the ▲▼ buttons to select **Chapter** or **Title**.
   - Blu-ray Disc/DVD repeats play by chapter or title.
3. To return to normal play, press the **REPEAT** button again, then press the ▲▼ buttons to select **Off**.

▪ Depending on the disc, the Repeat function may not be available.

Using the A-B Repeat function

BD-ROM BD-RE BD-R DVD-VIDEO DVD-RW DVD-R

1. Press the **REPEAT A-B** button on the remote control during playback.
2. Press the **REPEAT A-B** button at the point where you want repeat play to start (A).
3. Press the **REPEAT A-B** button at the point where you want repeat play to stop (B).
4. To return to normal play, press the **CANCEL** button.

▪ Point B cannot be set until 5 seconds of playback has elapsed from point A.

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SELECTING THE AUDIO LANGUAGE

BD-ROM BD-RE BD-R DVD-VIDEO

You can select a desired audio language quickly and easily with the **AUDIO** button.

Using the AUDIO button

1. Press the **AUDIO** button during playback. The Audio changes when the button is pressed repeatedly.
   - The audio languages are represented by abbreviations.

2. To remove the **AUDIO** icon, press the **CANCEL** or **RETURN** button.

Using the INFO button

1. During playback, press the **INFO** button on the remote control.
2. Press the ▲▼ buttons to select Audio language.
3. Press the ◄► buttons on the remote control to select the desired audio language.

- This function depends on what audio languages are encoded on the disc and may not be available.
- A Blu-ray Disc can contain up to 32 audio languages and a DVD up to 8.
- Depending on the disc type, you can use the Audio button to change the audio soundtrack as well as the audio language.
  Some Blu-ray Discs may allow you to select either the multi-channel LPCM or Dolby digital audio soundtrack in English.
- Information about the primary / secondary mode will be also displayed if the Blu-ray Disc has a BONUSVIEW section.
  Use the ◄► button to switch between primary and secondary audio modes.
- The ◄► indicator will not be displayed on the screen if the BONUSVIEW section does not contain any BONUSVIEW audio settings.

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SELECTING THE SUBTITLE LANGUAGE

You can select a desired subtitle quickly and easily with the **SUBTITLE** button.

Using the SUBTITLE button

BD-ROM DVD-VIDEO

1. Press the **SUBTITLE** button. The subtitle changes when the button is pressed repeatedly. The subtitle languages are represented by abbreviations.
2. To remove the **SUBTITLE** icon, press the **CANCEL** or **RETURN** button.

Using the INFO button

1. During playback, press the **INFO** button on the remote control.
2. Press the ▲▼ buttons to select **Subtitle**.
3. Press the ◄► buttons on the remote control to select the desired subtitle language.

- Depending on the Blu-ray Disc /DVD, you may be able to change the desired subtitle in the Disc Menu. Press the **DISC MENU** button.
- This function depends on what subtitles are encoded on the disc and may not be available on all Blu-ray Disc /DVDs.
- A Blu-ray Disc can contain up to 255 subtitle languages and a DVD up to 32.
- Information about the primary / secondary mode will be also displayed if the Blu-ray Disc has a BONUSVIEW section.
- This function changes both the primary and secondary subtitles at the same time.
- The number of subtitles is the sum of primary and secondary ones.

CHANGING THE CAMERA ANGLE

When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can use the ANGLE function.

Using the ANGLE function

BD-ROM DVD-VIDEO

1. During playback, press the **INFO** button on the remote control.
2. Press the ▲▼ buttons to select **Angle**.
3. Press the ◄► buttons or you can use the number buttons on the remote control to select the desired angle.

- If the disc has only one angle, this feature won't work. Currently, very few discs have this feature.
- Depending on the disc, these functions may not work.

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BONUSVIEW SETTINGS

The Bonusview feature allows you to view additional content (such as commentaries) in a small screen window while the movie is playing.

If the current Blu-ray Disc features the BONUSVIEW function, you can use the **BONUSVIEW** button to turn BONUSVIEW On or Off.

Using the BONUSVIEW button

BD-ROM

1. If the current title of a Blu-ray Disc has the BONUSVIEW feature, you will see the BONUSVIEW icon in the BONUSVIEW section on the play screen.
2. Each time you press the **BONUSVIEW** button, you can toggle between BONUSVIEW On and BONUSVIEW Off.

- You can change detailed settings of the BONUSVIEW feature in the INFO menu (see page 53: selection of secondary audio, video stream and subtitle etc.).
- If you switch from BONUSVIEW Video, BONUSVIEW Audio will change automatically in accordance with BONUSVIEW Video.
- If the Blu-ray Disc supports only BONUSVIEW Audio, you can just press the **BONUSVIEW** button to turn the secondary audio on or off.

BD-LIVE™

The Blu-ray player supports BD-LIVE which enables you to enjoy a variety of interactive service contents provided by the disc manufacturer through network connection.

Using the BD-LIVE Disc

1. Connect the LAN adaptor (see page 29) and check the network setup (see pages 46 to 48).
2. Insert a Blu-ray disc that supports BD-LIVE.
3. Select BD-LIVE supported in the disc before you can enjoy various contents.

- The way you use BD-LIVE and the features may differ, depending on the disc.

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USING THE BOOKMARK FUNCTION

This features lets you bookmark sections of a Blu-ray Disc/DVD, so you can quickly find them at a later time.

Using the MARKER button

BD-ROM BD-RE BD-R DVD-VIDEO DVD-RW DVD-R

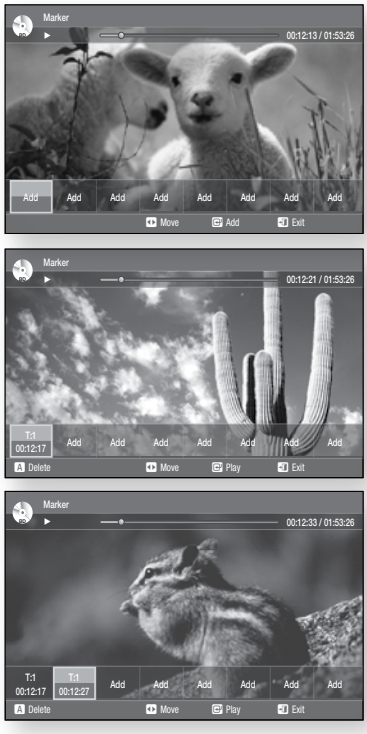
1. During playback, press the **MARKER** button on the remote control.
   The Bookmark screen appears.

2. Press the **ENTER** button when the desired scene appears.
   The selected scene will be stored.

3. To bookmark another section, press the ◄► buttons to move to the next position.

4. Press the **ENTER** button again when the desired scene appears.
   The scene will be stored at the selected position and the bookmark time information will be shown.

   - Repeat above to bookmark other positions.
   - You can bookmark up to 8 scenes.



- When the disc tray is opened and then closed, bookmark information will be lost.
- In some BD discs(BD-J), Bookmark function can be prohibited.

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watching a movie

Playing back a bookmark

1. During playback, press the **MARKER** button on the remote control.

2. Press the ◄► buttons to select a bookmarked scene.
3. Press the **ENTER** or **PLAY**(⏯) button to start playing from the selected scene.

Clearing a bookmark

1. During playback, press the **MARKER** button on the remote control.

2. Press the ◄► buttons to select a bookmarked scene.

3. Press the **RED(A)** button to delete the selected bookmark.

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USING THE INSTANT STREAMING FEATURE PROVIDED BY NETFLIX

This Blu-ray Disc Player supports the Netflix streaming service which enables you to enjoy various movies via network connection.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Netflix**, then press the **ENTER** or ► button.

3. If you dont have an account, select "no-start my FREE trial" and subscribe to http://www.netflix.com/samsung from your computer. otherwise, a user with existing account can select the "yes-activate instant streaming from Netflix.

NETFLIX
Netflix delivers movie rentals two ways!
One low price - No late fees!
Unlimited DVDs by mail
No late fees - ever!
+
Unlimited streaming of movies instantly to your TV
via your Samsung Blu-ray player
Are you a Netflix member?
no - start my FREE trial
yes - activate instant streaming from Netflix
exit

NETFLIX
Netflix delivers movie rentals two ways!
One low price - No late fees!
Unlimited DVDs by mail
Over 100,000 DVD titles including every major Blu-ray title
PLUS!
Unlimited streaming instantly to your TV
Over 15,000 movies & TV episodes.
From your computer, start your FREE trial:
www.netflix.com/samsung
I'm now a member
back

4. If you have an existing account, you will see the next window if “yes” was selected. After creating your account, select "I'm now a member"

NETFLIX
Unlimited streaming instantly from Netflix!
To your TV via your Samsung Blu-ray player.
• Movies start in about 30 seconds
• Included in most memberships
• No additional fees
To instantly watch movies from Netflix:
From your computer, activate instant streaming:
Go to: www.netflix.com/activate
Enter this code:
get a new code
back

- You can also start the Netflix streaming service by pressing "Red color key (A button) in Samsung LOGO Screen.
- Video resolution of the netflix contents (SD or HD) is depend on the network speed and the original bitrate of the Netflix contents.
- When you use the Netfix streaming sevice with this Blu-ray Disc Player, refer to the LAN connection (see page 29).
- Activating (1st connection for Netflix) your Blu-ray Disc Player for Netflix, you may need a two lan cables for both PC and the Player.

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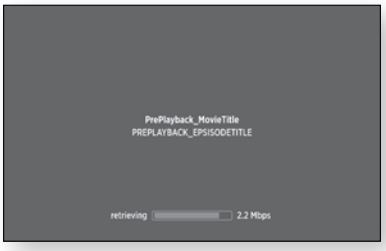
watching a movie

5. Movies you added to the Instant Queue from the web are listed.
Press the **ENTER** button of the remote control and select a movie to display the next screen.

- To add the movie in Instant Queue list of this Blu-ray Disc Player, you can select "Add to Instant" button on "Watch Instantly" page of Netflix web site using your PC

6. Press the **PLAY** button to start the playback, and the initial buffering of the streamed data is shown.



7. Press the **SCAN** button to select a scene of your choice.

- To stop the movie or go to the instant movie list, press the upper arrow key or press stop key.

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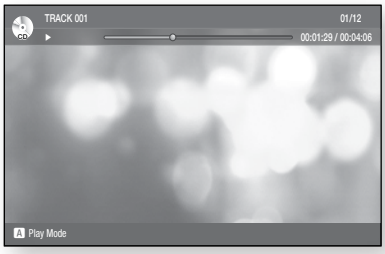
listening to music

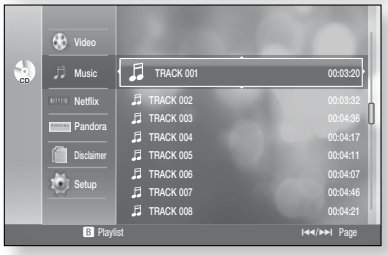
PLAYING AN AUDIO CD(CD-DA)

1. Insert an Audio CD(CD-DA) into the disc tray.
   The first track will be played automatically.

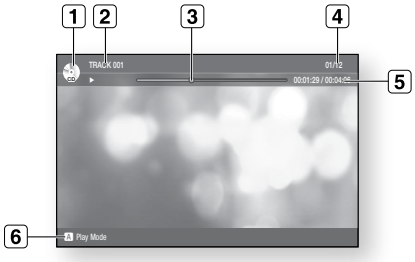
2. To move to the Music List, press the **STOP** or **RETURN** button.
   The Music List screen is displayed on your TV.

3. Press the ▲▼ buttons to select the track you want to play, and then press the **ENTER** button.





AUDIO CD(CD-DA) SCREEN ELEMENTS



1	Displays the media type.
2	Current track (song) Displays the number of the track currently being played.
3	Play Status Bar.
4	Displays the current play index, total track number.
5	Current /Total Play Time.
6	Displays available COLOR buttons. (see next page for Color button usage).

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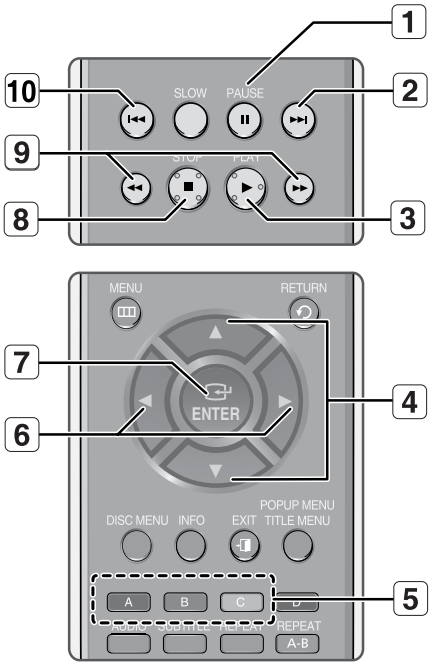
listening to music

BUTTONS ON THE REMOTE CONTROL USED FOR AUDIO CD (CD-DA) DISC PLAYBACK



1. **PAUSE** (⏸) button: Pauses playback.
2. **SKIP** (⏭) button: During playback, plays the next track. Moves to the next page in the Music List or the Playlist.
3. **PLAY** (▶) button: Plays the currently selected track.
4. ▲▼ buttons : Selects a track(song) in the Music List or Playlist.
5. **COLOR** buttons: RED(A), GREEN(B), YELLOW(C)
   - RED(A) button : Selects the Play Mode(Repeat) during playback.
   - GREEN(B) button : Go to Playlist from Music List or go to Music list from Playlist.
   - YELLOW(C) button : Playlist play.
6. ◄► buttons
   ► : Plays the applicable track, according to the current position.
   ◄ : Moves to the menu.
7. **ENTER** button : Plays the selected track (song).
8. **STOP** (⏹) button: Stops a track(song).
9. Press the **SEARCH** (⏮⏭) buttons : Fast Play.
10. **SKIP** (⏮) button: If you pressed this button after three seconds of playback, the current track will be replayed from the beginning. But,if you pressed this button within three seconds after playback starts, the previous track will be played.
    Also used to move by the page in the Music List or the Playlist.

REPEAT AUDIO CD(CD-DA)

During playback, press the **REPEAT** or **RED(A)** button repeatedly to select the repeat mode you want.
Normal ➞ 🔁 ➞ 🔁ALL ➞ 🔁R

- **Normal** : Tracks on a disc are played in the order in which they were recorded on the disc.
- 🔁 **Repeat Track**
- 🔁R **Random**
  The random option plays a disc's track in random order.
- 🔁ALL **Repeat All :** All tracks are repeated.

- To return to normal playback -
Press the **REPEAT** or **RED(A)** button repeatedly to return to normal playback.

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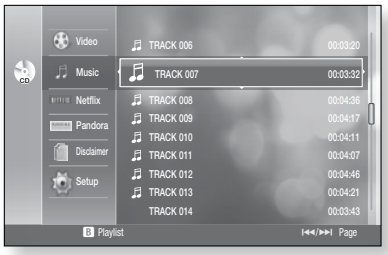
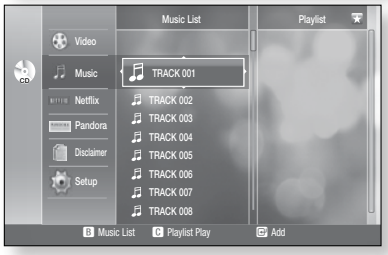
Playlist

You can create a playlist with up to 99 tracks.

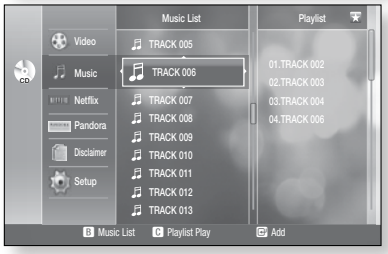
1. Insert an Audio CD(CD-DA) into the disc tray.
   For an audio CD, the first track will be played automatically.
2. To move to the Music List, press the **STOP** or **RETURN** button.
   The Music List screen is displayed.



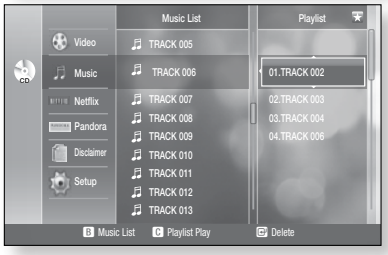
3. Press the **GREEN(B)** button.



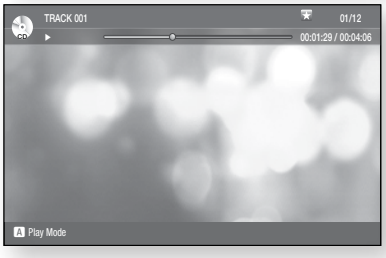
4. Press the ▲▼ buttons to select a track, then press the **ENTER** button to add it to the Playlist. Repeat this procedure to add additional tracks.



5. If there is an undesired track in the playlist, press the ▲▼ button to select that track, and then press the **ENTER** button.
   • The selected track will be deleted.



6. Press the **YELLOW(C)** button to play the selected tracks. When the track is finished, the next track will automatically play.



7. To edit the Playlist, press the **STOP** or **RETURN** button.
8. To go to the Music List, press the **Green(B)** or **RETURN** button.

■ MP3 and JPEG discs cannot be played in this player.

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listening to music

USING THE INTERNET RADIO FEATURE PROVIDED BY PANDORA

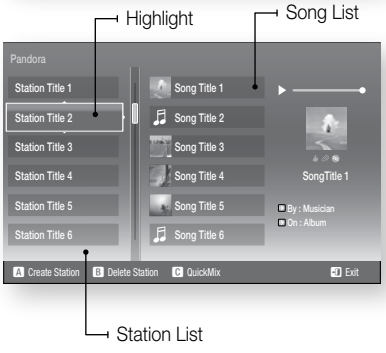
Pandora provides music personalized to your taste.

1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
2. Press the ▲▼ buttons to select **Pandora**, then press the **ENTER** or ► button.
   Pandora's initial screen appears.

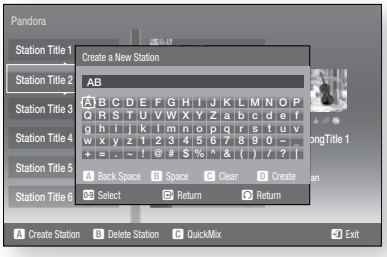
3. To run Pandora, you need to input the activation code at <http://www.pandora.com/samsung> page with your PC. After input the activation code, you may have to create a new account if you don't have one yet.
   If you already have an account, you can use the existing account.

PANDORA®
internet radio
Listen to radio that is personalized to your tastes.
Go to http://www.pandora.com/samsung
and enter XXXXXXX to activate.
Enjoy music you know and discover music you'll love.
It's easy and FREE !
Please activate your device to continue.
OK

4. It automatically shows the list of stations created from the web or player, and plays music.



5. Press the **RED(A)** button while the highlight is on the station list to display the create station window.


Pandora
Station Title 1
Station Title 2
Station Title 3
Station Title 4
Station Title 5
Station Title 6
Create a New Station
AB
A B C D E F G H I J K L M N O P
Q R S T U V W X Y Z a b c d e f
g h i j k l m n o p q r s t u v
w x y z 1 2 3 4 5 6 7 8 9 0 – _
+ = . ~ ! @ # $ % ^ & ( ) / ? |
A Back Space
B Space
C Clear
D Create
Select
Return
Return
A Create Station
B Delete Station
C QuickMix
Exit

6. Enter the keyword and press the **BLUE(D)** button to display the search result.

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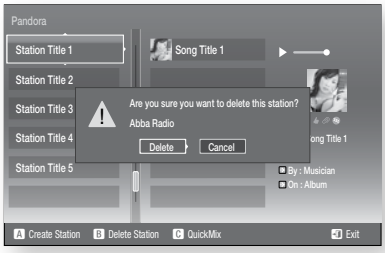
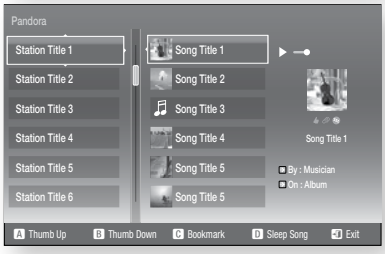
7. Press the **GREEN(B)** button while the highlight is on the station list to delete the selected station.



8. You can edit your song list by using color buttons of the remote control while the highlight is on the song list.



- **ThumbUp** : By indicating your preference to the server, it plays more songs you love.
- **ThumbDown** : By indicating your dislike to the server, it plays fewer songs you don't like.
- **Bookmark** : It bookmarks the selected song.
  -Once bookmarked with this Blu-ray Disc Player, you can find those from www.pandora.com using your account and various additional services provided by Pandora web service using your PC.
- **SleepSong** : It excludes the selected song from the station for a month.

- The www.pandora.com server reflects the changes made on your player.
- Activating (1st connection for Pandora) your Blu-ray Disc Player for Pandora, you may need a two lan cables for both PC and the Player.

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troubleshooting

Before requesting service, please check the following.

PROBLEM	SOLUTION
No operation can be performed with the remote control.	• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the Blu-ray Disc/ DVD.
Disc Menu does not appear.	• Check if the disc has a Menu.
The ⊘ icon appears on the screen.	• This icon appears when an invalid button is pressed. • The features or action cannot be completed at this time because : 1. The Blu-ray Disc/ DVD's software restricts it. 2. The Blu-ray Disc/ DVD's software doesn't support the feature (e.g., angles) 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your Blu-ray Disc/ DVDs. • This is not a problem with the player.
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.
The screen is blocked	• Press the ▶▶I button (in front panel) for more than 5 seconds with no disc inside. All settings will revert to the factory settings. • When the factory default settings are restored, all the user data stored in the persistent storage will be deleted.
If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV.	• Press the ▶▶I button (in front panel) for more than 5 seconds with no disc inside. All settings will revert to the factory settings. • When the factory default settings are restored, all the user data stored in the persistent storage will be deleted.

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PROBLEM	SOLUTION
Forgot password	• Press the ▶▶I button (in front panel) for more than 5 seconds with no disc inside. All settings including the password will revert to the factory settings. Don't use this unless absolutely necessary. • When the factory default settings are restored, all the user data stored in the persistent storage will be deleted.
If you experience other problems.	• Go to the contents and find the section of the instruction manual that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest Samsung authorized service center or call 1-800-SAMSUNG.
The picture is noisy or distorted	• Make sure that the disc is not dirty or scratched. • Clean the disc.
No HDMI output.	• Check the connection between the TV and the HDMI jack of the Blu-ray Disc Player. • Check if your TV supports 480p/720p/1080i/1080p HDMI input resolution.
Abnormal HDMI output screen.	• If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

▪ When the factory default settings are restored, all the user data stored in the persistent storage will be deleted.

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SPECIFICATIONS

General	Power Requirements	AC 120V, 60Hz
	Power Consumption	36 W
	Weight	6.8 lbs
	Dimensions	16.9(W) × 10.6(D) × 2.3(H) inches
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
Disc	BD (Blu-ray Disc)	Reading Speed : 4.917m/sec
	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec.
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 5 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 74 min.
	CD : 3 1/2 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.
		Maximum Play Time : 20 min.
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
		Blu-ray/DVD Disc : 480i
	Component Video	Y : 1.0 Vp-p (75 Ω load)
		Pr : 0.70 Vp-p (75 Ω load)
		Pb : 0.70 Vp-p (75 Ω load)
		Blu-ray Disc : 1080i, 720p, 480p, 480i DVD : 480p, 480i
Video/Audio	HDMI	1080p, 1080i, 720p, 480p
		PCM multichannel audio, Bitstream audio
Audio Output	2 Channel	L(1/L), R(2/R)
	7.1 Channel	F/L, F/R, R/L, R/R, C/T, S/W, SBR, SBL
	Digital Audio Output	Optical
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz
		96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.003%

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

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COPY PROTECTION

- Because AACS (Advanced Access Content System) is approved as content protection system for Blu-ray Disc format, similar to use of CSS (Content Scramble System) for DVD format, certain restrictions are imposed on playback, analog signal output, etc., of AACS protected contents. The operation of this product and restrictions on this product may vary depending on your time of purchase as those restrictions may be adopted and/or changed by AACS after the production of this product. Furthermore, BD-ROM Mark and BD+ are additionally used as content protection system for Blu-ray Disc format, which imposes certain restrictions including playback restrictions for BD-ROM Mark and/or BD+ protected contents. To obtain additional information on AACS, BD-ROM Mark, BD+, or this product, please contact SAMSUNG customer care center.
- Many Blu-ray Disc/DVD discs are encoded with copy protection. Because of this, you should only connect your Blu-ray Disc Player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected Blu-ray Disc/DVD discs.
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- **For Blu-ray Disc Players progressive scan output :** CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS PRODUCT, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Compliance and Compatibility Notice

NOT ALL discs are compatible

- Subject to the restrictions described below and those noted throughout this Manual, including the Disc Type and Characteristics section of this Manual, disc types that can be played are: pre-recorded commercial BD-ROM, DVD-Video, and Audio CD discs; BD-RE, BD-R, DVD-RW / DVD-R discs; and CD-RW/CD-R discs.
- Discs other than the above cannot and/or is not intended to be played by this player. And some of the above discs may not play due to one or more reasons provided below.
- Samsung cannot assure that this player will play every disc bearing the BD-ROM, BD-RE, BD-R, DVD-Video, DVD-RW / DVD-R and CD-RW/CD-R logos, and this player may not respond to all operating commands or operate all features of every disc. These and other disc compatibility and player operation issues with new and existing format discs are possible because:
  - Blu-ray is a new and evolving format and this player may not operate all features of Blu-ray Discs because some features may be optional, additional features may have been added to the Blu-ray Disc format after the production of this player, and certain available features may be subject to delayed availability;
  - not all new and existing disc format versions are supported by this player;
  - new and existing disc formats may be revised, changed, updated, improved and/or supplemented;
  - some discs are produced in a manner that allows specific or limited operation and feature during playback;
  - some features may be optional, additional features may have been added after the production of this player or certain available features may be subject to delayed availability;
  - some discs bearing the BD-ROM, BD-RE, BD-R, DVD-Video, DVD-RW/ DVD-R and CD-RW/CD-R logos may still be non-standardized discs;
  - some discs may not be played depending on their physical state or recording conditions;
  - problems and errors can occur during the creation of Blu-ray Disc, DVD software and/or the manufacture of discs;
  - this player operates differently than a standard DVD player or other AV equipment; and/or
  - for reasons noted throughout this Manual and for other reason(s) discovered and posted by SAMSUNG customer care center.
- If you encounter disc compatibility or player operation problems, please contact SAMSUNG customer care center. You may also contact SAMSUNG customer care center for possible updates on this player.
- For additional information on playback restrictions and disc compatibility, refer to the Precautions, Before Reading the User's Manual, Disc Types and Characteristics, and Before Playing sections of this Manual.

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